Manualslib.com - The Global Manuals Library

JVC LT-40FH96 SERVICE MANUAL

Quick Links

Standard Circuit Diagram
Quick Setup
Troubleshooting

Table of Contents

PRECAUTION
SPECIFIC SERVICE INSTRUCTIONS
DISASSEMBLY
ADJUSTMENT
adjustment mode
standard circuit diagram
wiring diagram
parts list
using p.w. board & remote control unit
exploded view parts list
exploded view
printed wiring board parts list
analog p.w. board ass'y (sfl-1211a-m)
sd-card p.w. board ass'y (sfl-1302a-m)
d-amp p.w. board ass'y (sfl-6201a-m)
sw p.w. board ass'y (sfl-7203a-m)
card p.w. board ass'y (sfl-8511a-m)
led p.w. board ass'y (sfl-8702a-m)
power p.w. board ass'y (sfl-9041a-m)
dc-dc p.w. board ass'y (sfl-9141a-m)
digital p.w. board ass'y (sfl0d151a-m)
sub power p.w. board ass'y (sfl-9705a-m)
remote control unit parts list (rm-c14g-1h)
packing parts list
unpacking your tv
tv remote control
quick setup

vcr connection
connecting to a camcorder
headphone connection
connecting to an external amplifier
v1 smart input
connecting to a digital tv receiver
connecting to the computer
table of signals for each type of computer
auto clock set
manual clock set
auto tuner setup
initial setup
picture adjust
sound adjust
unrated programs
directions to set us v-chip ratings
setting us v-chip ratings
directions to set movie (mpaa) ratings
directions to set canadian v-chip ratings
aspect ratios
Antenna Level
Digital Sound
Aspect Ratio
Cable Card Application
i.LINK Auto Play
Software Update
Digital CH D/A (Digital/Analog)
Sub Channel
i.LINK Menu

Controller
Device
Timer
Reservation
Timer Edit
Guide
Readable Media Card
Supported Card Media
How to insert Media Card
How to operate Media Card Viewer
PHOTO
VIDEO
FILE
Operation Note
Specifications for Media Card Viewer
Weak Signal
No Program
Invalid Signal
Cable Card Connection
Troubleshooting
Warranty
Specifications
Notes
Other ManualsLib Projects

JVC

Preliminary

SERVICE MANUAL

LCD FLAT TELEVISION

LT-40FH96/S

BASIC CHASSIS
FL3

I'Art PALETTE

D.I.S.T. Digital Image Scaling Technology

BBE

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

i HDTV

DCR DOLBY DIGITAL

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-6
3 DISASSEMBLY 1-9
4 ADJUSTMENT 1-16
5 TROUBLESHOOTING 1-22

COPYRIGHT © 2005 Victor Company of Japan, Limited

No.YA363
2005/11

SPECIFICATION

Items		Contents
Dimensions (W × H × D)		100.0 cm × 73.4 cm × 32.9 cm (39-3/8" × 29" × 13") [Included stand] 100.0 cm × 67.1 cm × 11.7 cm (39-3/8" × 26-1/2" × 4-5/8") [TV only]
Mass		32.0 kg (70.4 lbs) [Included stand] 25.0 kg (55.0 lbs) [TV only]
Power Input		AC120 V , 60 Hz
Power Consumption		255 W (Max)
TV RF System (Analog / Digital)	Analog Digital	CCIR (M) ATSC terrestrial / Digital cable
Color System (Analog)		NTSC
Stereo System (Analog)		BTSC (Multi Channel Sound)
Teletext System (Analog)		Closed caption (T1-T4 / CC1-CC4)
TV Receiving Channels and Frequency (Analog)	VHF Low VHF High UHF CATV	02 ch - 06 ch : 54 MHz - 88 MHz 07 ch - 13 ch : 174 MHz - 216 MHz 14 ch - 69 ch : 470 MHz - 806 MHz 54 MHz - 804 MHz Low Band : 02 - 06 High Band : 07 - 13 Mid Band : 14 - 22 Super Band : 23 - 36 Hyper Band : 37 - 64 Ultra Band : 65 - 94, 100 - 135 Sub Mid Band : 01, 96 - 99
TV / CATV Total Channel		191 Channels
Intermediate Frequency (Analog)	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5 MHz)
Color Sub Carrier Frequency (Analog)		3.58 MHz
LCD panel		40V-inch wide aspect (16:9)
Screen Size		Diagonal : 101.8 cm (H:88.5 cm × V : 49.8 cm)
Display Pixels		Horizontal : 1920 dots × Vertical : 1080 dots (FULL HD)
Audio Power Output		10 W + 10 W
Speaker		6.6 cm, round type × 4
Antenna terminal (VHF/UHF)		F-type connector, 75 Ω unbalanced, coaxial
Video / Audio input [INPUT-1/2/3]	Component Video [INPUT-1] 1125i / 750p 525p / 525i S-Video [INPUT-1/2] Video Audio	RCA pin jack × 3 Y : 1 V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1 V (p-p), Positive (Negative sync provided), 75 Ω Cb/Cr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin × 2 Y: 1 V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1 V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 3 500 mV (rms), High impedance, RCA pin jack × 6
Digital input	Video Audio	HDMI 2-row 19pin connector × 2 (Digital-input terminal is not compatible with picture signals of personal computer) Digital: HDMI 2-row 19pin connector × 1 Anarog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2
Monitor / Recording Output	S-Video Video Audio	Mini-DIN 4pin × 1 Y: 1 V (p-p), 75 Ω C: 0.286 V(p-p) (burst signal), 75 Ω 1 V (p-p), 75 Ω, RCA pin jack × 1 250 mV(rms) (-10 dBs), Fs-18 dB low impedance, RCA pin jack × 2
Audio output		500 mV (rms), Low impedance, RCA pin jack × 2
iLink Input/Output		TS In/Out (4-pin, S400) × 2, IEEE1394 compliant DTCP digital copy protection compatible
Digital Audio Optical Output		Digital SPDIF × 1
Headphone		3.5 mm stereo mini jack × 1
Remote Control Unit		RM-C14G (AA/R6 / UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual**. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED (NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND.
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.

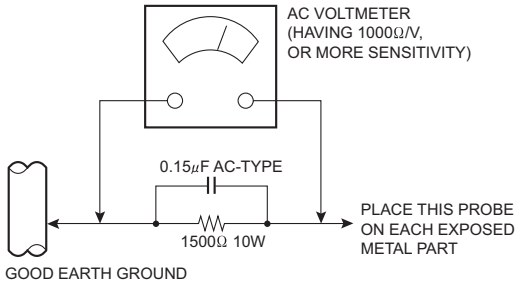
(5) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(6) **Isolation Check (Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

b) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



1.2 INSTALLATION

1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically.Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.

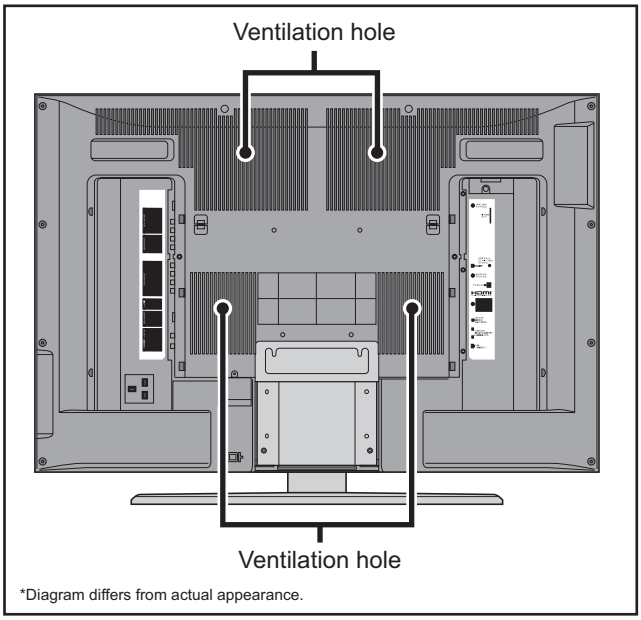


*Diagram differs from actual appearance.

1.2.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc.Install the unit on stable flooring or stands.Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.

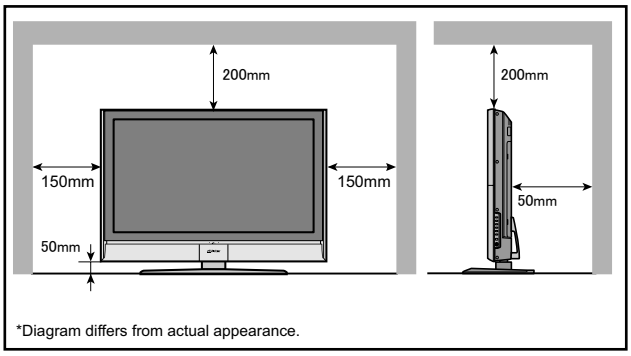


*Diagram differs from actual appearance.

1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.
Tie commercially available tough cord(s) to the hooks in the back of the TV, and fix the TV to solid walls or columns.

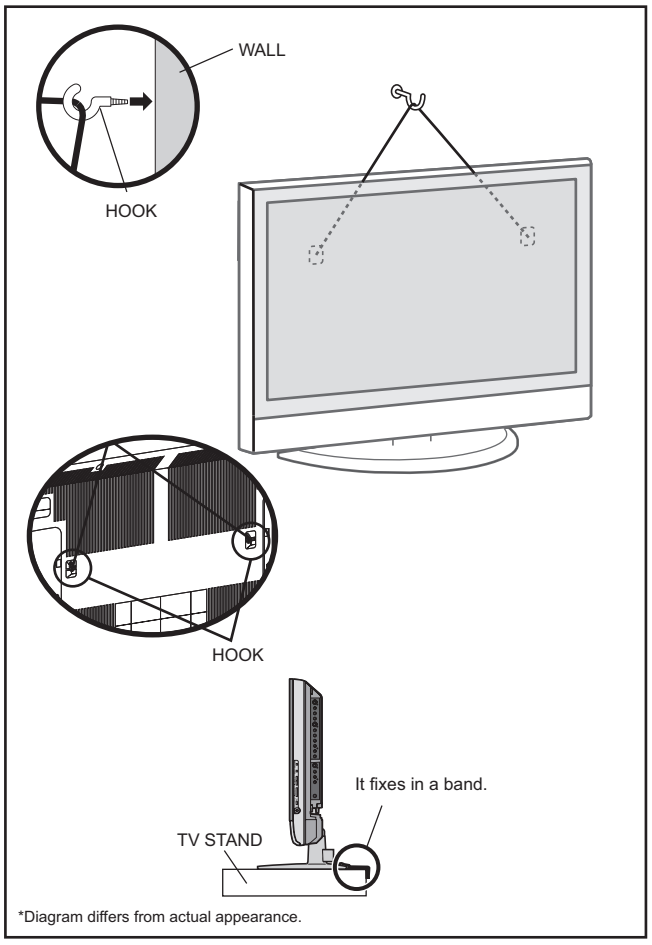


*Diagram differs from actual appearance.

1.2.4 NOTES ON HANDLING

(1) WHEN TAKING UNIT OUT OF A PACKING CASE
When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

(2) AS FOR PRESSING OR TOUCHING A SPEAKER
Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

(1) USE A SPECIAL PACKING CASE FOR THE LCD PANEL
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

(2) ATTACH PROTECTION SHEET TO THE FRONT
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

(3) AVOID VIBRATIONS AND IMPACTS
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

(4) DO NOT PLACE EQUIPMENT HORIZONTALLY
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

(1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and color.

(2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).

(3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.

(4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

(1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular color.

(2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.

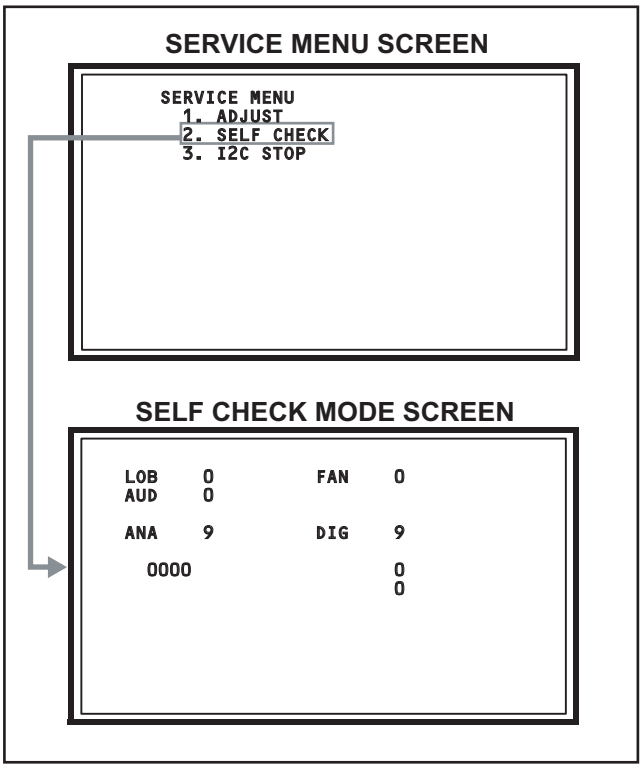
(3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 SYSTEM SETTEING

Be sure to carry out the following operation at the end of the procedure.

(1) Set to 0 minutes using the **[SLEEP TIMER]** key.
(2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the SERVICE MODE.
(3) When the Main Menu is displayed, press **[2]** key to enter the self check mode.
(4) Turn off the power by pressing the **[POWER]** key on the remote control unit.



2.2 FEATURES

Built in ATSC (Advanced Television Systems Committee) TUNER
This TV can receive both Digital broadcasting (ATSC) and Analogue broadcasting.

D.I.S.T. (Digital Image Scaling Technology)
This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

SMART CAPTION
Smart caption will appear when you press the MUTING button, only on channels where the broadcast contains CLOSED CAPTION information.

SMART SOUND
Decreases high sound levels, giving a regulated sound level.

VIDEO STATUS
Expression of a favorite screen can be chosen by the VIDEO STATUS function.
[STANDARD ↔ DYNAMIC ↔ THEATER ↔ GAME]

DIGITAL INPUT
Digital-in will display when any picture signal in Digital-in is displayed.

V-CHIP
Since the V-CHIP is built in, it can choose, view and listen to a healthy program.

MTS STEREO
The voice multiplex function of the MTS system is built in. (MTS = Multi channel Television Sound system)

NATURAL CINEMA
Watching the movie or animation, press the Natural Cinema to adjust the out line of the images to make thin more sharp.

BBE
High definition audio adds natural, clear and extraordinary sound quality to any program.

VIDEO INPUT LABEL
This function is used to label video input connections for the onscreen displays.

A.H.S.
Adds a more spacious surround sound. Music gives basic effect and Movie for more effect.

2.3 TECHNICAL INFORMATION

2.3.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.
Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

2.3.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications
Maximum dimensions (W × H × D)	952 mm × 551 mm × 51 mm
Weight	10.5 kg
Effective screen size	Diagonal: 1018 mm (H: 885 mm × V : 498 mm) / 40 V
Aspect ratio	16 : 9
Drive device / system	a-Si-TFT, active matrix system
Resolution	Horizontally 1920 × Vertically 1080 × RGB <W-XGA> / 6,220,800 dots in total
Pixel pitch (pixel size)	H: 0.15375 mm, V: 0.46125 mm
Displayed color	16777216 colors / 256 colors for R, G, and B
Brightness	500 cd/m^2
Contrast ratio	1000 : 1
Response time	less than 20 ms
View angle	Horizontally: 178°, Vertically: 178°
Surface polarizer	Anti-Glare type, Low reflective coat
Color filter	Vertical stripe
Backlight	Cold cathode fluorescent lamp × 22
Power supply voltage in LCD	5 V
Power supply voltage in inverter	24 V
Panel interface system	LVDS (Low Voltage Differential Signaling)

2.3.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

(1) BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.
For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

(2) DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.
For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

(3) FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.
For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.3.2 MAIN CPU PIN FUNCTION [IC7601 : DIGITAL PWB ASS'Y]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	VHOLD1	I	Data slice for main screen closed caption	51	NC	O	Not used
2	HFLT1	I/O	LPF for main screen closed caption video input	52	NC	O	Not used
3	NC	O	Not used	53	NC	O	Not used
4	NC	O	Not used	54	NC	O	Not used
5	DIGR0	O	R [0] for OSD	55	NC	O	Not used
6	TB1in	I	AC power for timer clock	56	NC	O	Not used
7	REMO	I	Remote control	57	NC	O	Not used
8	BYTE	I	Data bus width select [L = 16bit (fixed)]	58	NC	O	Not used
9	CNVss	I	CPU programming mode select [Normal = L]	59	NC	O	Not used
10	DIGG0	O	G [0] for OSD	60	NC	O	Not used
11	DIGB0	O	B [0] for OSD	61	NC	O	Not used
12	RESET	I	Reset for main CPU [Reset = L]	62	HSYNC	I	H. sync for OSD
13	Xout	O	System clock osillation (crystal) : 16MHz	63	NC	O	Not used
14	Vss	-	GND	64	VSYNC	I	V. sync for OSD
15	Xin	I	System clock osillation (crystal) : 16MHz	65	NC	O	Not used
16	Vccl	I	3.3V stand-by power supply	66	NC	O	Not used
17	OSC1	I	Clock for OSD	67	NC	O	Not used
18	OSC2	O	Not used : Clock for OSD	68	NC	O	Not used
19	INT1	I	Not used : AV COMPULINK control	69	NC	O	Not used
20	INT0	I	Request for sub(chassis) CPU communication (serial data)	70	NC	O	Not used
21	OUT1	O	Ys (blanking) for OSD	71	P2.1	O	Clock for Inter IC (serial) bus control
22	OUT2	O	YM (transparence) for OSD	72	P2.0	I/O	Data for Inter IC (serial) bus control
23	NC	O	Not used	73	NC	O	Not used
24	NC	O	Not used	74	NC	O	Not used
25	NC	O	Not used	75	NC	O	Not used
26	NC	O	Not used	76	NC	O	Not used
27	CTA2/RTS2	O	Not used	77	NC	O	Not used
28	CLK2	O	Not used	78	NC	O	Not used
29	RxD2	I	Digital tuner control	79	NC	O	Not used
30	TxD2	O	Digital tuner control	80	P1.0	O	Function LED lighting
31	SDA2	I/O	Not used	81	P0.7	O	Communication LED lighting
32	DIGR1	O	R [1] for OSD	82	P0.6	O	Test point
33	DIGG1	O	G [1] for OSD	83	NC	O	Not used
34	DIGB1	O	B [1] for OSD	84	WAKE	O	Reset for sub(chassis) CPU
35	TxD0	I	Data receive (serial) for external programming	85	CARD_DET	I	Not used
36	RxD0	O	Data transmission (serial) for external programming	86	POWER_SW	I	Power switch (mechanical) detection
37	CLK0	I	Clock for external programming	87	SDA	I/O	Data for Inter IC (serial) bus control : memory
38	RTS0	O	Busy for external programming [Operation = H]	88	SLC	O	Clock for Inter IC (serial) bus control : memory
39	P5.7	I	Not used	89	DIGR2	O	R [2] for OSD
40	P5.6	O	Not used	90	DIGG2	O	G [2] for OSD
41	HOLD	I	CPU programming mode select [Normal = H]	91	DIGB2	O	B [2] for OSD
42	P5.4	O	Not used	92	NC	O	Not used
43	P5.3	O	Not used	93	KEY2	I	Key scan data for front control button (MENU/CH+/CH-) KEY2
44	P5.2	O	Not used	94	KEY1	I	Key scan data for front control button (INPUT/VOL+/VOL-) KEY1
45	P5.1	O	Not used	95	VHOLD2	I	Data slice for sub screen closed caption
46	WR	O	CPU programming mode select [Normal = L]	96	HLF2	I/O	LPF for sub screen closed caption video input
47	P4.7	O	Data transmission for sub(chassis) CPU communication (serial)	97	CVIN2	I	Video(Y) for sub screen closed caption
48	P4.6	I	Data receive for sub(chassis) CPU communication (serial)	98	TVSETB	I	Test terminal [L Fixed]
49	P4.5	I	Clock for sub(chassis) CPU communication (serial)	99	VCCE	I	5V stand-by power supply
50	P4.4	O	Not used	100	CVIN1	I	Video(Y) for main screen closed caption

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

CAUTION AT DISASSEMBLY:

- **Be sure to perform the SYSTEM SETTEING, at the end of the procedure.**
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE STAND (Fig.1)

(1) loosens the 2 screw **[A]**.
(2) Remove the STAND COVER.
(3) Remove the 2 screws **[B]** and 2 screw **[C]**.
(4) Remove the STAND.

3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
  (1) Remove the JACK COVER (L/R).
  (2) Remove the 10 screws **[D]**, the 6 screws **[E]**, and the 2 screws **[F]**.
  (3) Remove the REAR COVER.

3.1.3 REMOVING THE POWER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 1 screw **[G]**.
  (2) Remove the POWER CORD HOLDER.
  (3) Remove the POWER CORD.
  (4) Remove the 4 screws **[H]**.
  (5) Remove the POWER PWB.

3.1.4 REMOVING THE D-AMP PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 2 screw **[I]**.
  (2) Remove the D-AMP PWB.

3.1.5 REMOVING THE ANALOG PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the D-AMP PWB.
  (1) Remove the 3 screws **[K]** and 2 screws **[J]**.
  (2) Remove the TERMINAL BASE.
  (3) Remove the 1 screw **[L]**.
  (4) Remove the TUNER BASE.
  (5) Remove the 2 screws **[M]**.
  (6) Remove the D-AMP BRACKET.
  (7) Remove the 2 screws **[N]**.
  (8) Remove the ANALOG PWB.

3.1.6 REMOVING THE SW PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 3 screws **[O]**.
  (2) Remove the CONTROL ASSY with the SW PWB.
  (3) Remove the SW PWB.

3.1.7 REMOVING THE DC-DC PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 4 screws **[P]**.
  (2) Remove the BACK BRACKET.
  (3) Remove the 4 screws **[Q]**.
  (4) Remove the DC-DC PWB.

3.1.8 REMOVING THE COOLING FAN (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
  (1) Remove the SHIELD COVER.
  (2) Remove the 2 screws **[R]**.
  (3) Remove the COOLING FAN.

3.1.9 REMOVING THE DIGITAL TUNER UNIT (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
  (1) Remove the 5 screws **[S]**.
  (2) Remove the DIGITAL TUNER UNIT.

3.1.10 REMOVING THE SD CARD PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
- Remove the DIGITAL TUNER UNIT.
  (1) Remove the 7 screws **[T]**.
  (2) Remove the DIGITAL PWB BRACKET.
  (3) Remove the 1 screw **[U]**.
  (4) Remove the SD CARD PWB.

3.1.11 REMOVING THE DIGITAL SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
- Remove the DIGITAL TUNER UNIT.
- Remove the DIGITAL PWB BRACKET.
  (1) Remove the 2 screws **[V]** and 2 screws **[W]**.
  (2) Remove the SHIELD TERMINAL.
  (3) Remove the DIGITAL SIGNALPWB.

CAUTION :

Make sure to perform the "SYSTEM SETTEING", when DIGITAL SIGNAL PWB is replaced.

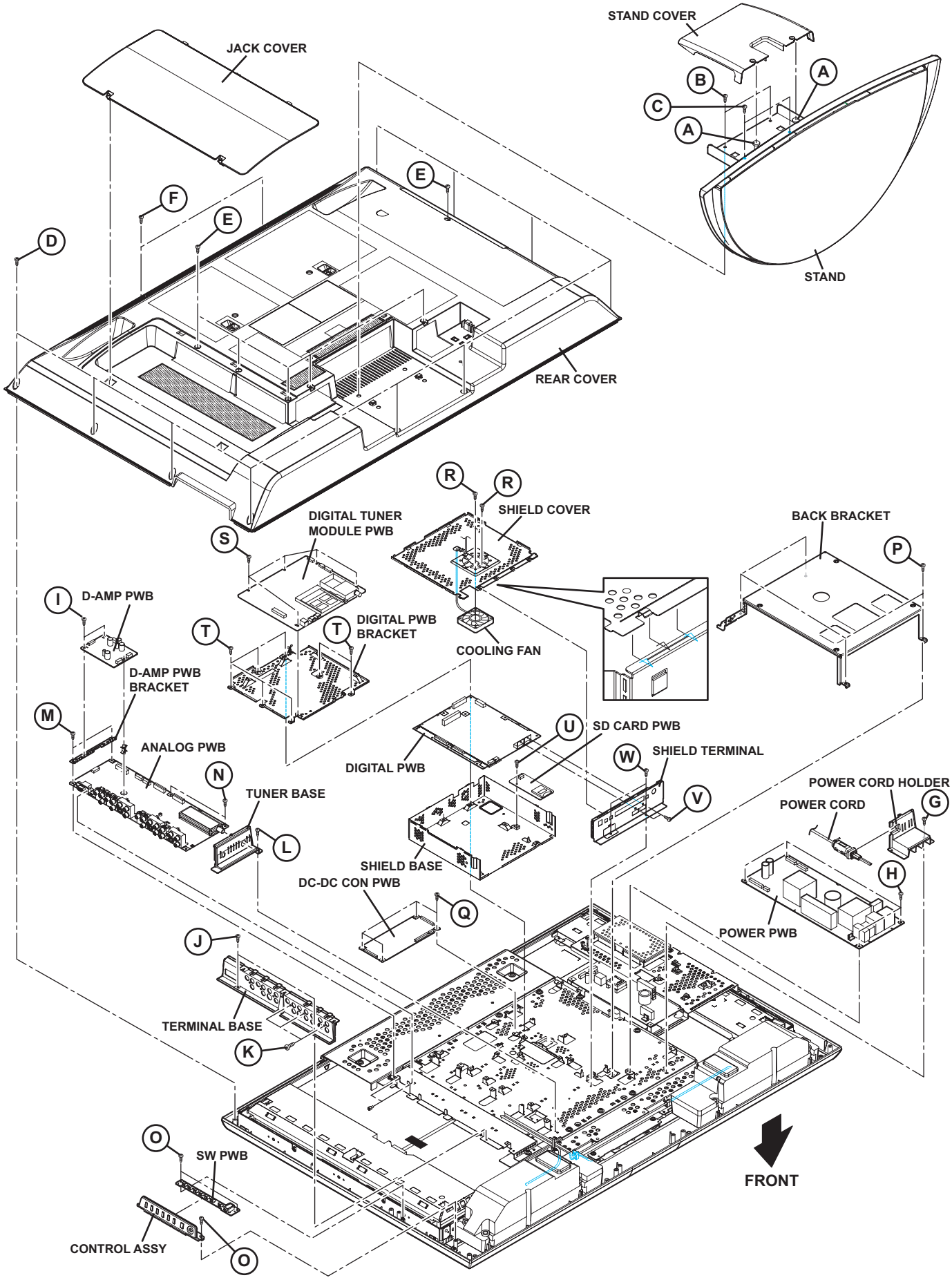

STAND COVER
JACK COVER
A
B
C
A
STAND
E
F
E
D
REAR COVER
R
R
SHIELD COVER
DIGITAL TUNER
MODULE PWB
S
BACK BRACKET
P
I
D-AMP PWB
T
T
DIGITAL PWB
BRACKET
COOLING FAN
D-AMP PWB
BRACKET
M
U
SD CARD PWB
DIGITAL PWB
W
SHIELD TERMINAL
ANALOG PWB
N
TUNER BASE
V
POWER CORD HOLDER
POWER CORD
G
L
SHIELD BASE
DC-DC CON PWB
Q
H
POWER PWB
J
TERMINAL BASE
K
O
SW PWB
FRONT
CONTROL ASSY
O

Fig.1

3.1.12 REMOVING THE SPEAKER (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 6 screws **[A]**.
  (2) Remove the SPEAKER (L /R).

NOTE:

- Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.
- When the speaker is decomposed, the performance cannot be kept.

3.1.13 REMOVING THE LED PWB (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 2 screws **[B]**.
  (2) Remove the LED PWB.

3.1.14 REMOVING THE LED LENS (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the LED PWB.
  (1) Remove the 2 screws **[C]**.
  (2) Remove the LED LENS.

3.1.15 REMOVING THE CARD PWB (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 3 screws **[D]**.
  (2) Remove the CARD BASE ASS'Y.
  (3) Remove the CARD SHIELD.
  (4) Remove the 4 screws **[E]**.
  (5) Remove the CARD PWB.

3.1.16 REMOVING THE SUB POWER PWB (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 4 screws **[F]**.
  (2) Remove the SUB POWER PWB.

3.1.17 REMOVING THE LCD PANEL UNIT (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
  (1) Remove the 2 screws **[G]**, 2 screws **[H]**, 3 screws **[J]** and 1 screw **[K]**.
  (2) Remove the MAIN BASE.
  (3) Remove the 3 screws **[L]** and 2 screw **[M]**.
  (4) Remove the TOP FARAME.
  (5) Remove the 2 screws **[N]** and 2 screw **[P]**.
  (6) Remove the BOTTOM FARAME.
  (7) Remove the LCD PANEL UNIT from the FRONT PANEL.
  (8) Remove the 2 screws **[Q]**.
  (9) Remove the CARD PWB BRACKET from the LCD PANEL UNIT.

NOTE:

- Pay special attention not to break or damage on the FRONT PANEL.
- The LCD PANEL UNIT is fixed to the FRONT PAMEL (at the back side)by using double-side adhesive tapes. To remove the LCD PANEL UNIT, remove the adhesive tape on the FRONT PANEL slowly.

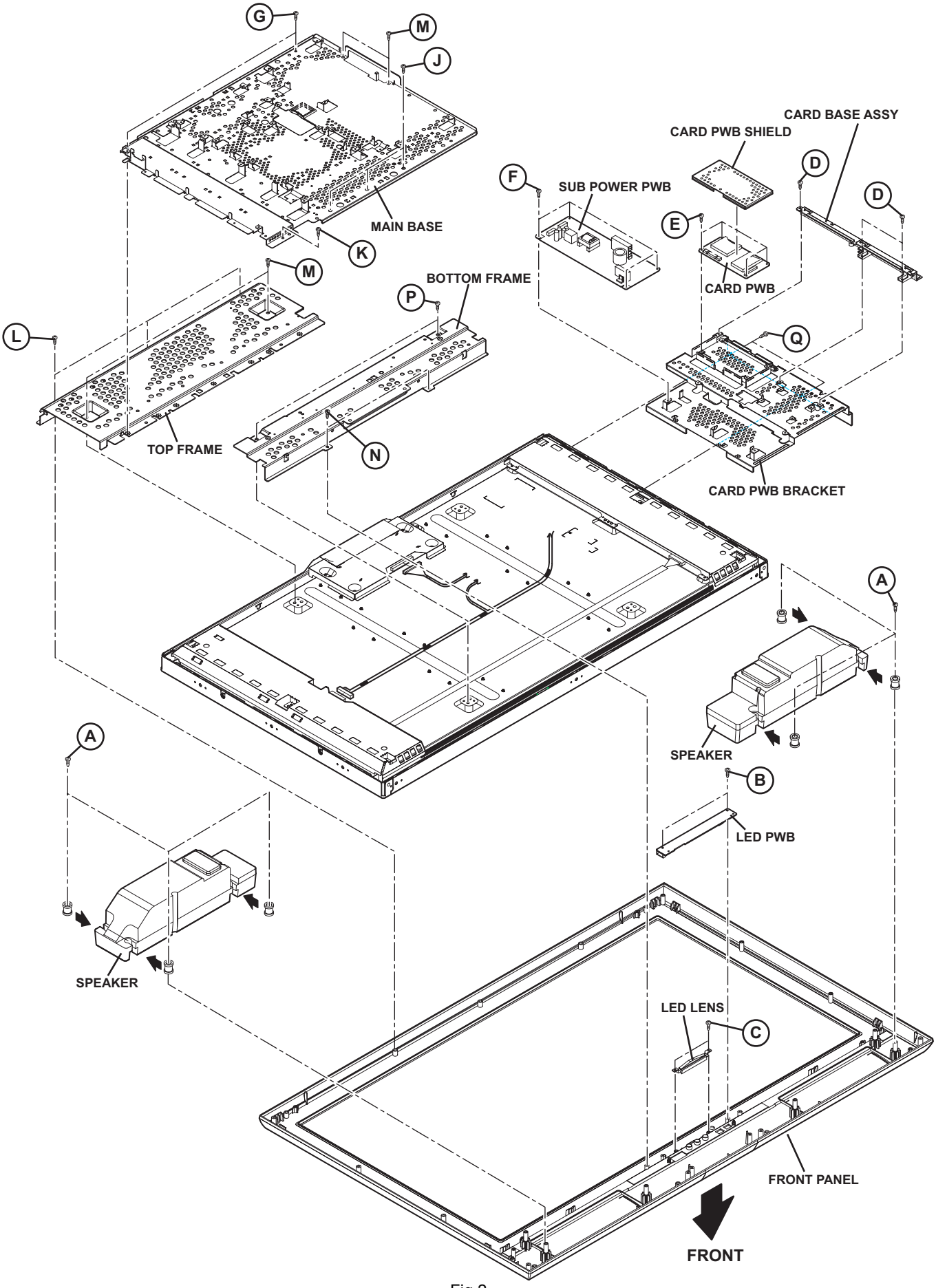

G
M
J
MAIN BASE
K
CARD BASE ASSY
CARD PWB SHIELD
D
D
F
SUB POWER PWB
E
CARD PWB
M
BOTTOM FRAME
P
L
Q
TOP FRAME
N
CARD PWB BRACKET
A
SPEAKER
A
B
LED PWB
SPEAKER
LED LENS
C
FRONT PANEL
FRONT

Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off
Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC
Be sure to use the memory IC written with the initial setting values.

3. Power on
Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting
Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting
Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MODE setting
Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING

■SERVICE MODE SCREEN

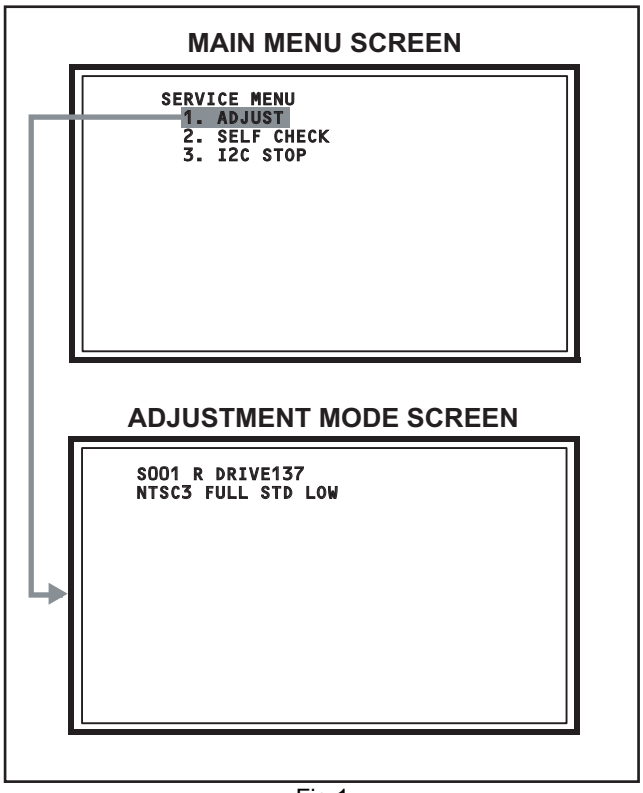


Fig.1

■SETTING ITEM

Setting items	Settings	Item No.
Video system setting	Adjust	S001 - S009
Audio system setting	Adjust	T001 - T003
Main CPU system setting	Fixed	M001 - M224
Drive system setting	Fixed	F001 - F002
(NOT USED)	Fixed	D001
(NOT USED)	Fixed	Z001

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CABLE-02
VOLUME	10

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item		Setting position
INPUT		TV
CHANNEL		CABLE-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
ASPECT	NTSC	PANORAMA
	HD / ATSC	FULL
SLEEP TIMER		OFF
THEATER PRO		OFF
NATURAL CINEMA		AUTO
VIDEO STATUS		DYNAMIC
MTS		STEREO
SOUND EFFECT	A.H.S.+	OFF
	BBE	ON
	SMART SOUND	OFF
	HYPER BASS	OFF

3.2.3.3 REMOTE CONTROL MENU OPERATION

1. PICTURE ADJUST

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

< NTSC MODE >

Setting item	DYNAMIC	STANDARD	GAME	THEATER
PICTURE	00	00	00	00
BRIGHT	00	00	00	00
COLOR	+10	00	-10	00
TINT	00	00	00	00
DETAIL	+05	00	00	00
ENERGY SAVER MODE	+30	+20	00	-10
COLOR TEMPERATURE	HIGH	LOW	HIGH	HIGH
COLOR MANAGEMENT	ON	ON	ON	ON
DYNAMIC GAMMA	ON	ON	ON	ON
SMART PICTURE	ON	ON	ON	ON
DIGITAL VNR	AUTO	AUTO	AUTO	AUTO
MPEG NR	ON	ON	ON	ON

< HD MODE >

Setting item	DYNAMIC	STANDARD	GAME	THEATER
PICTURE	00	00	00	00
BRIGHT	00	00	00	00
COLOR	+05	00	-10	00
TINT	00	00	00	00
DETAIL	+05	00	00	00
ENERGY SAVER MODE	+30	+20	00	-10
COLOR TEMPERATURE	HIGH	LOW	HIGH	HIGH
COLOR MANAGEMENT	ON	ON	ON	ON
DYNAMIC GAMMA	ON	ON	ON	ON
SMART PICTURE	ON	ON	ON	ON
DIGITAL VNR	AUTO	AUTO	AUTO	AUTO
MPEG NR	ON	ON	ON	ON

2. SOUND ADJUST

Setting item	Setting position
BASS	00
TREBLE	00
BALANCE	00

3. CLOCK / TIMERS

Setting item	Setting position
ON / OFF TIMER	OFF

4. INITIAL SETUP

Setting item	Setting position
VIDEO-1 MONITOR OUT	OFF
DIGITAL-IN	AUTO
DIGITAL-AUDIO	DIGITAL
NOISE MUTING	ON
FRONT PANEL LOCK	OFF
V1 SMART INPUT	OFF
VIDEO INPUT LABEL	All blank
POSITION ADJUSTMENT	Center
POWER INDICATOR	HIGH
ILLUMINATION	LOW
LANGUAGE	ENG.
CLOSED CAPTION	OFF(CC1/T1)
AUTO SHUT OFF	OFF
XDS ID	ON
V-CHIP	OFF

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

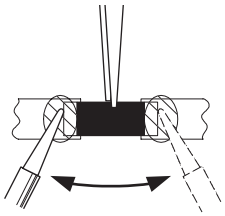
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

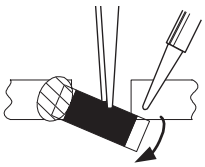
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



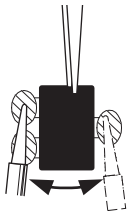
(2) Shift with the tweezers and remove the chip part.



[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.

(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

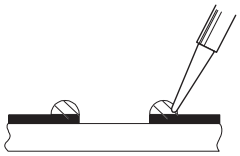


NOTE :
After removing the part, remove remaining solder from the pattern.

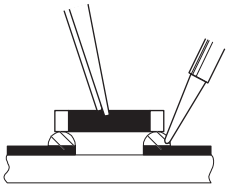
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

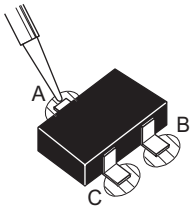


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

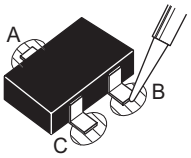


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**

(2) **The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**

(3) Make sure that connection is correctly made AC to AC power source.

(4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.

(5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.

(6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings
VIDEO STATUS	STANDARD
BRIGHT / CONTRAST / COLOR / TINT	00
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
COLOR MANAGEMENT	ON
NATURAL CINEMA	OFF
TREBLE / BASS / BALANCE	00
SMART SOUND	OFF
MTS	STEREO
BBE	OFF
A.H.S	OFF
A.H.B	OFF
ASPECT	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- Signal generator (Pattern generator) [NTSC]
- TV audio multiplex signal generator
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ **VIDEO CIRCUIT**
- WHITE BALANCE (HIGHLIGHT) adjustment

■ **MTS CIRCUIT**
- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.5 BASIC OPERATION OF SERVICE MODE

4.5.1 HOW TO ENTER THE SERVICE MODE

(1) Set to 0 minutes using the **[SLEEP TIMER]** key.

(2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the SERVICE MODE (Fig.1)

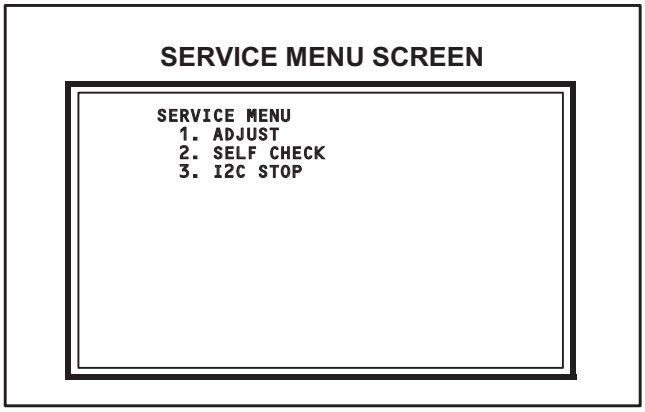


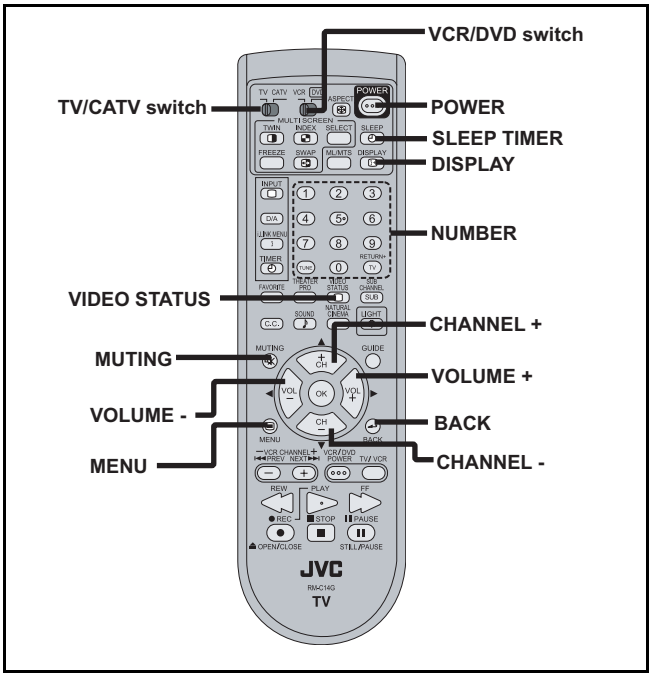
Fig.1

NOTE:
- Before entering the SERVICE MODE, confirm that the setting of **TV/CATV** switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of **VCR/DVD** switch is at the "**VCR**" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the **[1]** keys is pressed in the SERVICE MENU SCREEN, the other relevant screen may be displayed.
  This is not used in the adjustment procedure. Press the **[MENU]** key to return to the SERVICE MENU SCREEN.

4.5.2 HOW TO EXIT THE SERVICE MODE

Press the [BACK] key to exit the Service mode.

4.5.3 SERVICE MODE SELECT KEY LOCATION



4.5.4 ADJUSTMENT MODE

This mode is used to adjust the VIDEO CIRCUIT and the MTS CIRCUIT.

4.5.4.1 HOW TO ENTER THE ADJUSTMENT MODE

When the SERVICE MENU SCREEN of SERVICE MODE is displayed, press **[1]** key to enter the **ADJUSTMENT MODE (Fig.2)**.

4.5.4.2 DESCRIPTION OF STATUS DISPLAY OF ADJUSTMENT MODE

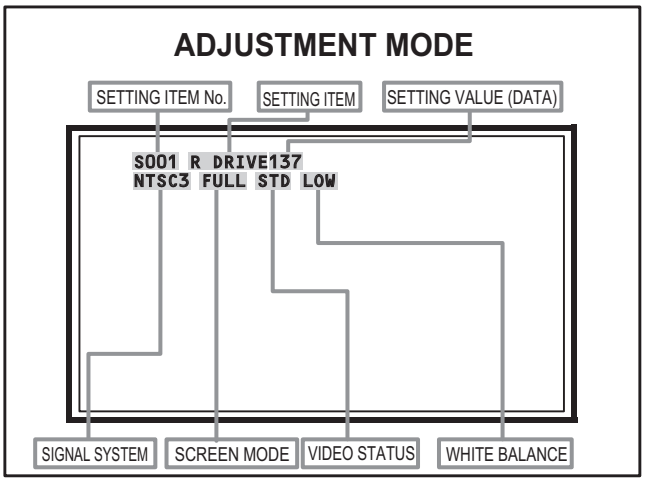


Fig.2

(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

NTSC3 : 525i (Composite / S-video input)
525I : 525i (Component input)
525P : 525p
1125I6 : 1125i
750P : 750p
H525I : HDMI 525i
H525P : HDMI 525p
H125I6 : HDMI 1125i
H750P : HDMI 750p
D525I : ATSC 525i
D525P : ATSC 525p
D125I6 : ATSC 1125i

(2) SCREEN MODE

State of the SCREEN SIZE or MULTI PICTURE is displayed.

SINGLE SCREEN

FULL : FULL
1609 : CINEMA, CINEMA ZOOM
PANO : PANORAMA, HD PANORAMA
REGU : REGULAR, SLIM
JUST : FULL NATIVE

MULTI SCREEN

M2 : TWIN, FREEZE screen
M12 : INDEX screen

(3) VIDEO STATUS

STD : STANDARD
DYN : DYNAMIC
TH : THEATER
GAME : GAME

(4) WHITE BALANCE

HIGH : HIGH
LOW : LOW

(5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 - S009	Video system setting
T001 - T003	Audio system setting
M001 - M224	Main CPU system setting
F001 - F002	Drive system setting
D001	(NOT USED)
Z001	(NOT USED)

(6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "Initial setting value of adjustment mode".

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

4.5.4.3 CHANGE AND MEMORY OF SETTING VALUE

■SELECTION OF SETTING ITEM

- **[CH+]** / **[CH-]** key.
  Change the setting items up/ down.

S001... ↔ T001... ↔ M001... ↔ F001... ↔ D001... ↔ Z001...

- **[SLEEP TIMER]** key.
  Switches to the next items.

S001 → T001 → M001... → F001... → D001 → Z001

■CHANGE OF SETTING VALUE (DATA)

- **[VOL+]** / **[VOL-]** key.
  Change the setting values up/down.

■MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing **[MUTING]** key.

4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

4.6.1 VIDEO SYSTEM SETTING

Item No.	Item	Variable range	Setting value
S001	R DRIVE	000 - 255	119
S002	G DRIVE	000 - 255	138
S003	B DRIVE	000 - 255	140
S004	RESREV	000 - 255	000
S005	RESREV	000 - 255	002
S006	RESREV	000 - 255	002
S007	RESREV	000 - 255	002
S008	RESREV	000 - 255	002
S009	RESREV	000 - 255	002

4.6.2 AUDIO SYSTEM SETTING

Item No.	Item	Variable range	Setting value
T001	INPLEVEL	000 - 015	008
T002	LOWSEPA	000 - 063	031
T003	HIGHSEPA	000 - 063	031

4.6.3 MAIN CPU SYSTEM SETTING (Fixed values)

Item No.	Item	Variable range	Setting value
M001	1E00	00 - FF	00
M002	1E01	00 - FF	00
M003	1E02	00 - FF	05
M004	1E03	00 - FF	38
M005	1E04	00 - FF	10
M006	1E05	00 - FF	00
M007	1E06	00 - FF	00
M008	1E07	00 - FF	00
M009	1E08	00 - FF	11
M010	1E09	00 - FF	00
M011	1E0A	00 - FF	01
M012	1E0B	00 - FF	00
M013	1E0C	00 - FF	01
M014	1E0D	00 - FF	00
M015	1E0E	00 - FF	00
M016	1E0F	00 - FF	00
M017	1E10	00 - FF	00
M018	1E11	00 - FF	00
M019	1E12	00 - FF	00
M020	1E13	00 - FF	01
M021	1E14	00 - FF	01
M022	1E15	00 - FF	00
M023	1E16	00 - FF	00
M024	1E17	00 - FF	00
M025	1E18	00 - FF	00
M026	1E19	00 - FF	00
M027	1E1A	00 - FF	00
M028	1E1B	00 - FF	00
M029	1E1C	00 - FF	00
M030	1E1D	00 - FF	00
M031	1E1E	00 - FF	00
M032	1E1F	00 - FF	00
M033	1E20	00 - FF	00
M034	1E21	00 - FF	00
M035	1E22	00 - FF	00
M036	1E23	00 - FF	00
M037	1E24	00 - FF	00
M038	1E25	00 - FF	00
M039	1E26	00 - FF	00
M040	1E27	00 - FF	00
M041	1E28	00 - FF	00
M042	1E29	00 - FF	00
M043	1E2A	00 - FF	00
M044	1E2B	00 - FF	00
M045	1E2C	00 - FF	00
M046	1E2D	00 - FF	00
M047	1E2E	00 - FF	00
M048	1E2F	00 - FF	00
M049	1E30	00 - FF	00
M050	1E31	00 - FF	00
M051	1E32	00 - FF	00
M052	1E33	00 - FF	00
M053	1E34	00 - FF	00
M054	1E35	00 - FF	00
M055	1E36	00 - FF	02
M056	1E37	00 - FF	00
M057	1E38	00 - FF	01
M058	1E39	00 - FF	0A
M059	1E3A	00 - FF	10
M060	1E3B	00 - FF	83
M061	1E3C	00 - FF	00
M062	1E3D	00 - FF	00
M063	1E3E	00 - FF	00
M064	1E3F	00 - FF	00
M065	1E40	00 - FF	00
M066	1E41	00 - FF	00
M067	1E42	00 - FF	03
M068	1E43	00 - FF	03
M069	1E44	00 - FF	02
M070	1E45	00 - FF	03
M071	1E46	00 - FF	3F
M072	1E47	00 - FF	00

Item No.	Item	Variable range	Setting value
M073	1E48	00 - FF	00
M074	1E49	00 - FF	00
M075	1E4A	00 - FF	00
M076	1E4B	00 - FF	00
M077	1E4C	00 - FF	00
M078	1E4D	00 - FF	00
M079	1E4E	00 - FF	00
M080	1E4F	00 - FF	00
M081	1E50	00 - FF	00
M082	1E51	00 - FF	00
M083	1E52	00 - FF	00
M084	1E53	00 - FF	00
M085	1E54	00 - FF	00
M086	1E55	00 - FF	00
M087	1E56	00 - FF	00
M088	1E57	00 - FF	00
M089	1E58	00 - FF	00
M090	1E59	00 - FF	00
M091	1E5A	00 - FF	00
M092	1E5B	00 - FF	00
M093	1E5C	00 - FF	00
M094	1E5D	00 - FF	00
M095	1E5E	00 - FF	00
M096	1E5F	00 - FF	00
M097	1E60	00 - FF	00
M098	1E61	00 - FF	00
M099	1E62	00 - FF	00
M100	1E63	00 - FF	00
M101	1E64	00 - FF	00
M102	1E65	00 - FF	00
M103	1E66	00 - FF	00
M104	1E67	00 - FF	00
M105	1E68	00 - FF	00
M106	1E69	00 - FF	00
M107	1E6A	00 - FF	02
M108	1E6B	00 - FF	00
M109	1E6C	00 - FF	00
M110	1E6D	00 - FF	00
M111	1E6E	00 - FF	00
M112	1E6F	00 - FF	00
M113	1E70	00 - FF	00
M114	1E71	00 - FF	00
M115	1E72	00 - FF	00
M116	1E73	00 - FF	00
M117	1E74	00 - FF	00
M118	1E75	00 - FF	00
M119	1E76	00 - FF	00
M120	1E77	00 - FF	14
M121	1E78	00 - FF	03
M122	1E79	00 - FF	00

Item No.	Item	Variable range	Setting value
M123	1E7A	00 - FF	00
M124	1E7B	00 - FF	00
M125	1E7C	00 - FF	00
M126	1E7D	00 - FF	00
M127	1E7E	00 - FF	01
M128	1E7F	00 - FF	00
M129	1E80	00 - FF	01
M130	1E81	00 - FF	00
M131	1E82	00 - FF	01
M132	1E83	00 - FF	00
M133	1E84	00 - FF	00
M134	1E85	00 - FF	00
M135	1E86	00 - FF	00
M136	1E87	00 - FF	00
M137	1E88	00 - FF	00
M138	1E89	00 - FF	00
M139	1E8A	00 - FF	00
M140	1E8B	00 - FF	00
M141	1E8C	00 - FF	00
M142	1E8D	00 - FF	00
M143	1E8E	00 - FF	00
M144	1E8F	00 - FF	00
M145	1E90	00 - FF	00
M146	1E91	00 - FF	00
M147	1E92	00 - FF	00
M148	1E93	00 - FF	00
M149	1E94	00 - FF	00
M150	1E95	00 - FF	00
M151	1E96	00 - FF	00
M152	1E97	00 - FF	00
M153	1E98	00 - FF	00
M154	1E99	00 - FF	00
M155	1E9A	00 - FF	01
M156	1E9B	00 - FF	00
M157	1E9C	00 - FF	03
M158	1E9D	00 - FF	00
M159	1E9E	00 - FF	00
M160	1E9F	00 - FF	00
M161	1EA0	00 - FF	00
M162	1EA1	00 - FF	00
M163	1EA2	00 - FF	01
M164	1EA3	00 - FF	00
M165	1EA4	00 - FF	00
M166	1EA5	00 - FF	00
M167	1EA6	00 - FF	00
M168	1EA7	00 - FF	00
M169	1EA8	00 - FF	00
M170	1EA9	00 - FF	00
M171	1EAA	00 - FF	00
M172	1EAB	00 - FF	00

Item No.	Item	Variable range	Setting value
M173	1EAC	00 - FF	09
M174	1EAD	00 - FF	00
M175	1EAE	00 - FF	00
M176	1EAF	00 - FF	00
M177	1EB0	00 - FF	0A
M178	1EB1	00 - FF	00
M179	1EB2	00 - FF	01
M180	1EB3	00 - FF	00
M181	1EB4	00 - FF	00
M182	1EB5	00 - FF	00
M183	1EB6	00 - FF	00
M184	1EB7	00 - FF	00
M185	1EB8	00 - FF	00
M186	1EB9	00 - FF	00
M187	1EBA	00 - FF	00
M188	1EBB	00 - FF	00
M189	1EBC	00 - FF	00
M190	1EBD	00 - FF	00
M191	1EBE	00 - FF	00
M192	1EBF	00 - FF	00
M193	1EC0	00 - FF	00
M194	1EC1	00 - FF	00
M195	1EC2	00 - FF	01
M196	1EC3	00 - FF	00
M197	1EC4	00 - FF	00
M198	1EC5	00 - FF	00
M199	1EC6	00 - FF	00
M200	1EC7	00 - FF	00
M201	1EC8	00 - FF	01
M202	1EC9	00 - FF	00
M203	1ECA	00 - FF	00
M204	1ECB	00 - FF	00
M205	1ECC	00 - FF	02
M206	1ECD	00 - FF	00
M207	1ECE	00 - FF	00
M208	1ECF	00 - FF	00
M209	1ED0	00 - FF	00
M210	1ED1	00 - FF	00
M211	1ED2	00 - FF	00
M212	1ED3	00 - FF	00
M213	1ED4	00 - FF	00
M214	1ED5	00 - FF	FF
M215	1ED6	00 - FF	00
M216	1ED7	00 - FF	00
M217	1ED8	00 - FF	00
M218	1ED9	00 - FF	00
M219	1EDA	00 - FF	00
M220	1EDB	00 - FF	00
M221	1EDC	00 - FF	00
M222	1EDD	00 - FF	00
M223	1EDE	00 - FF	00
M224	1EDF	00 - FF	00

4.6.4 DRIVE SYSTEM SETTING (Fixed values)

Item No.	Item	Variable range	Setting value
F001	DD	000 - 001	000
F002	RAM REF	000 - 001	000

4.6.5 NOT USED (Fixed values)

Item No.	Item	Variable range	Setting value
D001	RESREV	000 - 255	002

4.6.6 NOT USED (Fixed values)

Item No.	Item	Variable range	Setting value
Z001	RESREV	000 - 255	002

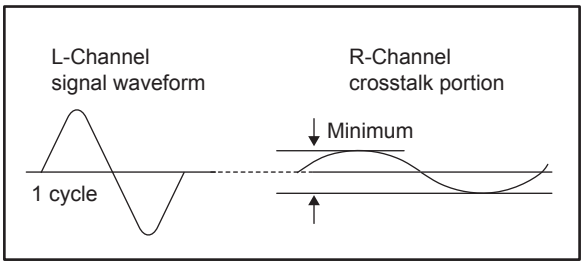
4.7 ADJUSTMENT PROCEDURE

4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (HIGHLIGHT)	Remote control unit Signal generator		[1.ADJUST] S030: R DRIVE (Red drive) S031: G DRIVE (Green drive) S032: B DRIVE (Blue drive)	(1) Receive a NTSC 75% all white signal. (2) Set "VIDEO STATUS" to **"STANDARD"**. (3) Set "ASPECT" to **"FULL"**. (4) Select "COLOR TEMPERATURE" to **"LOW"**. (5) Select **"1.ADJUST"** from the SERVICE MODE. (6) Adjust to keep one of **< S030 >** (Red drive), **< S031 >** (Green drive) or **< S032 >** (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout. **NOTE:** Set one or more of **< S030 >**, **< S031 >**, and **< S032 >** to **"133"**. (7) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it. (8) Press the **[MUTING]** key to memoirze the set value.

4.7.2 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	Remote control unit		[1.ADJUST] T001: IN LEVEL	(1) Receive the any broadcast. (2) Select **"1.ADJUST"** from the SERVICE MODE. (3) Verify that the **< T001 >** (IN LEVEL) is set at its initial setting value. (4) Press the **[MUTING]** key to memorize the set value.
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope Remote control unit	L OUT R OUT	[1.ADJUST] T002: LOW SEP T003: HI SEP	(1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to **L OUT** pin of the **AUDIO OUT**, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUT pin of the **AUDIO OUT**, and enlarge the voltage axis. (4) Select **"1.ADJUST"** from the SERVICE MODE. (5) Set the initial setting value of the **< T002 >** (LOW SEP). (6) Adjust the **< T002 >** so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust the **< T003>** (HI SEP). (8) Press the **[MUTING]** key to memorize the set value.



SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure.Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I^2C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the Self check Display mode, confirm that the setting of **TV/CATV** SW of the REMOTE CONTROL UNIT is at the **"TV"** side and the setting of **VCR/DVD** SW is at the **"VCR"** side. If the switches have not been properly set, you cannot enter the Self check Display mode.

(1) Set to "**0 minutes**" using the **[SLEEP TIMER]** key.
(2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the service mode.
(3) Press the **[2]** key (SELF CHECK) before the service mode screen disappears.
(4) Press the **[SLEEP TIMER]** key to enter Page 2 of the SELF CHECK MODE.
- When the **[RETURN+]** key pressed, the first page change screen.

NOTE:

When a number key other than the **[2]** key is pressed in the SERVICE MENU SCREEN, the other relevant screen may be displayed.
This is not used in the SELF CHECK. Press the **[MENU]** key to return to the SERVICE MENU SCREEN.

5.1.3 HOW TO EXIT THE SELF CHECK MODE

TO SAVE FAILURE HISTORY:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

TO CLEAR (RESET) FAILURE HISTORY:

Turn off the power by pressing the **[POWER]** key on the remote control unit when in the Self check display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

(1) Temporary defective transmissions across circuits due to pulse interruptions
(2) Misalignment in the on/off timing of power for I^2C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis reults.

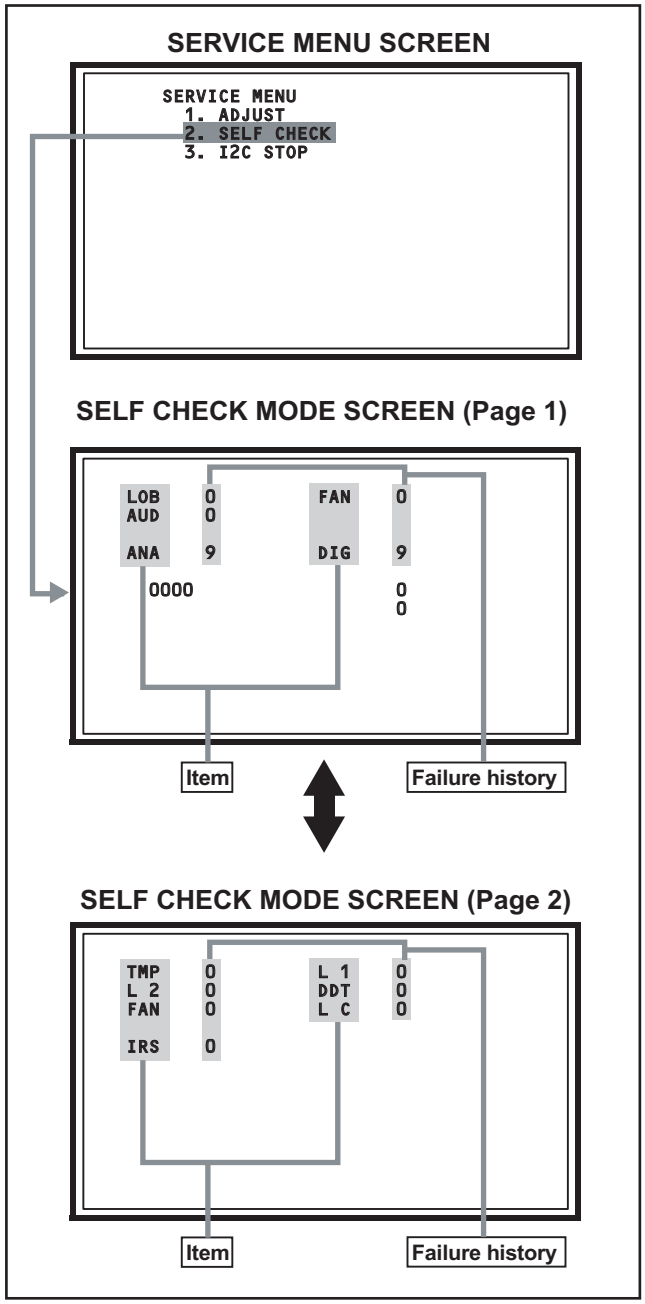


Fig.1

5.1.6 DETAILS

Self check is performed for the following items:

< Page 1 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirm the operation of the low bais (16V / 5V / LCD5V / 3.3V / 1.2V) protection circuit. Q9601, Q9651[POWER PWB]	LB_PRO	Detection starts 3 seconds after the power is turned on. If error continues between 200 ms the power is turned off.
Fan lock	FAN	Not used	----	----
Audio	AUD	Not used	----	----
Devices on the ANALOG PWB	ANA	Confirmation of reply of ACK signal which uses I2C communication. IC101, IC102, IC281, IC381, IC601, IC606, IC061, TU001 [ANALOG PWB]	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.
Devices on the DIGITAL PWB	DIG	Confirmation of reply of ACK signal which uses I2C communication. IC6401, IC8831 [DIGITAL PWB]	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.

< Page 2 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Temp. sensor	TEM	Not used	----	----
Lamp does not light up	L1	Not used	----	----
Lamp goes out	L2	Not used	----	----
Abnormal DD CPU circuit	DDT	Not used	----	----
Fan lock	FAN	Not used	----	----
Lamp cover open	LC	Not used	----	----
Abnormal of optical iris	IRS	Not used	----	----

5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Low luminance blue turnig on and off at 1 second intervals.
MAIN CPU error detection	Low luminance blue turnig on and off at 2 second intervals.
ATSC TUNER error detection	Low luminance blue turnig on and off at 2 second intervals.

< Explanation of operation >

If error is detected, the power is turned off.
Shortly after a power is turned off, POWER LED will be blinked.
Power cannot be turned on until the power cord takes out and inserts, after a power is turned off.

JVC

Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA363)

Printed in Japan
VPT

Preliminary

LT-40FH96/S

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

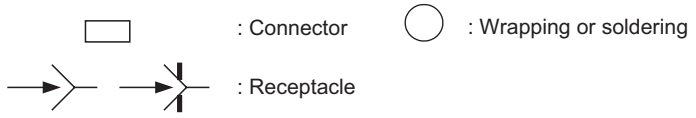
No unit	: [μH]
Others	: As specified

(4)Power Supply

∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

SEMICONDUCTOR SHAPES 2-2
WIRING DIAGRAM 2-3
BLOCK DIAGRAM 2-5

CIRCUIT DIAGRAMS

ANALOG PWB CIRCUIT DIAGRAM 2-7
DIGITAL PWB CIRCUIT DIAGRAM 2-19
POWER PWB CIRCUIT DIAGRAM 2-51
LED PWB CIRCUIT DIAGRAM 2-55
SW PWB CIRCUIT DIAGRAM 2-56
D-AMP PWB CIRCUIT DIAGRAM 2-57
CARD PWB CIRCUIT DIAGRAM 2-59
DC-DC PWB CIRCUIT DIAGRAM 2-63
SUB POWER PWB CIRCUIT DIAGRAM 2-65
SD CARD PWB CIRCUIT DIAGRAM 2-66

PATTERN DIAGRAMS

ANALOG PWB PATTERN 2-69
DIGITAL PWB PATTERN 2-71
POWER PWB PATTERN 2-75
CARD PWB PATTERN 2-77
DC-DC PWB PATTERN 2-78
SUB POWER PWB PATTERN 2-79
LED PWB PATTERN 2-81
SW PWB PATTERN 2-81
SD CARD PWB PATTERN 2-81
D-AMP PWB PATTERN 2-82

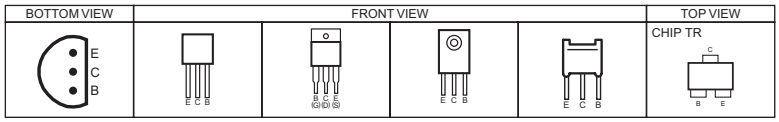
VOLTAGE CHATRS 2-xx
WAVEFORMS 2-xx

USING P.W. BOARD

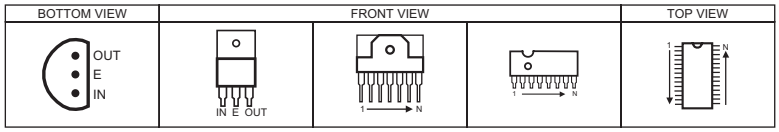
P.W.B ASS'Y name	HD-56FH96
ANALOG P.W. BOARD	SFL-1211A-M2
SD-CARD P.W. BOARD	SFL-1302A-M2
D-AMP P.W. BOARD	SFL-6201A-M2
SW P.W. BOARD	SFL-7203A-M2
CARD P.W. BOARD	SRP-8511A-M2
LED P.W. BOARD	SFL-8702A-M2
POWER P.W. BOARD	SFL-9041A-M2
DC-DC P.W. BOARD	SFL-9141A-M2
SUB POWER P.W. BOARD	SFL-9705A-M2
DIGITAL P.W. BOARD	SFL0D151A-M2

SEMICONDUCTOR SHAPES

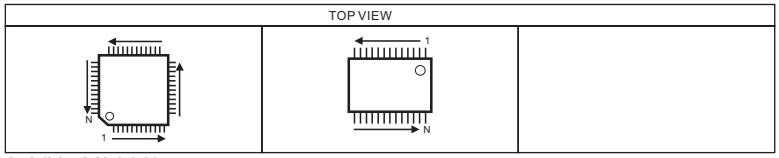
TRANSISTOR



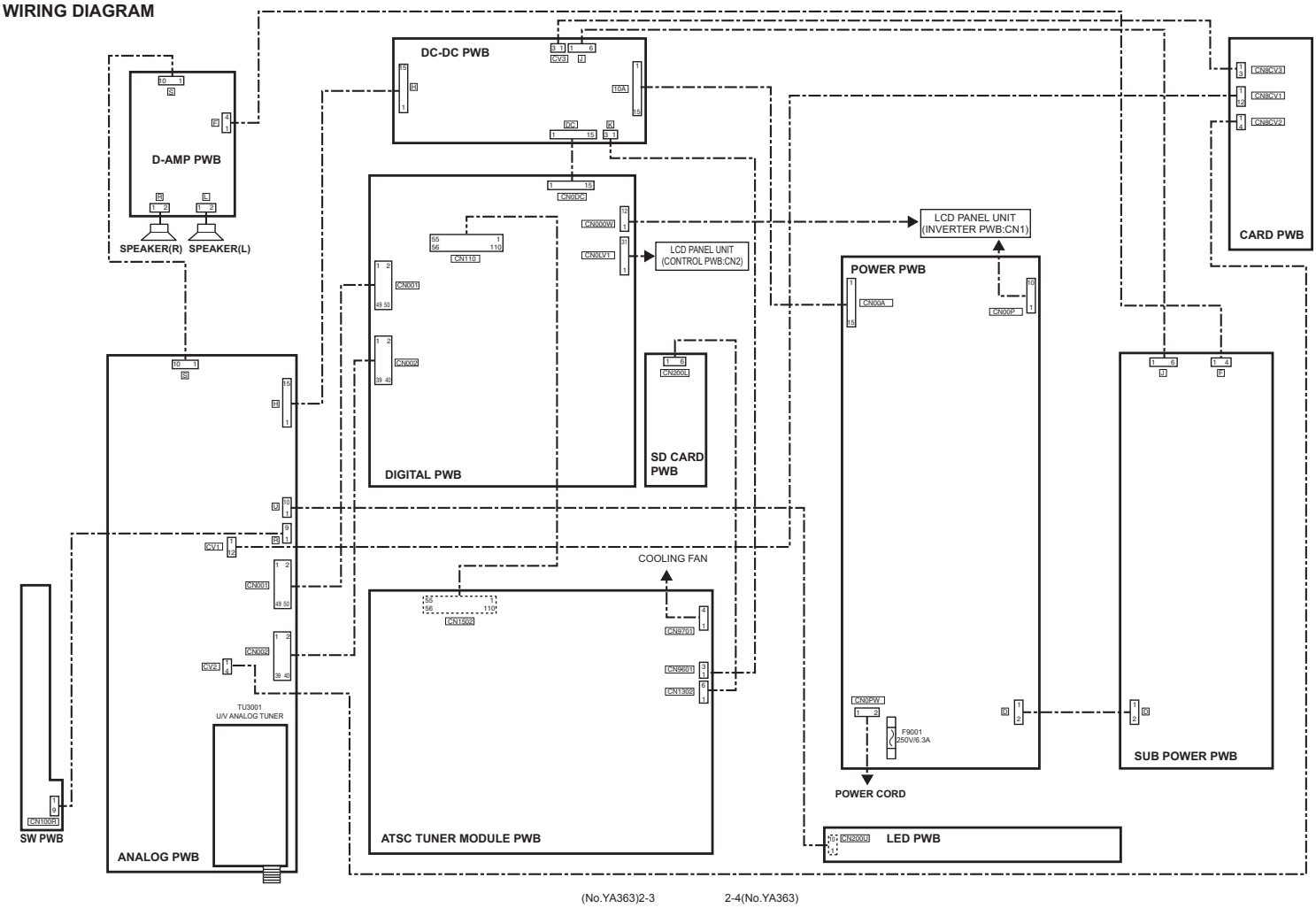
IC



CHIP IC



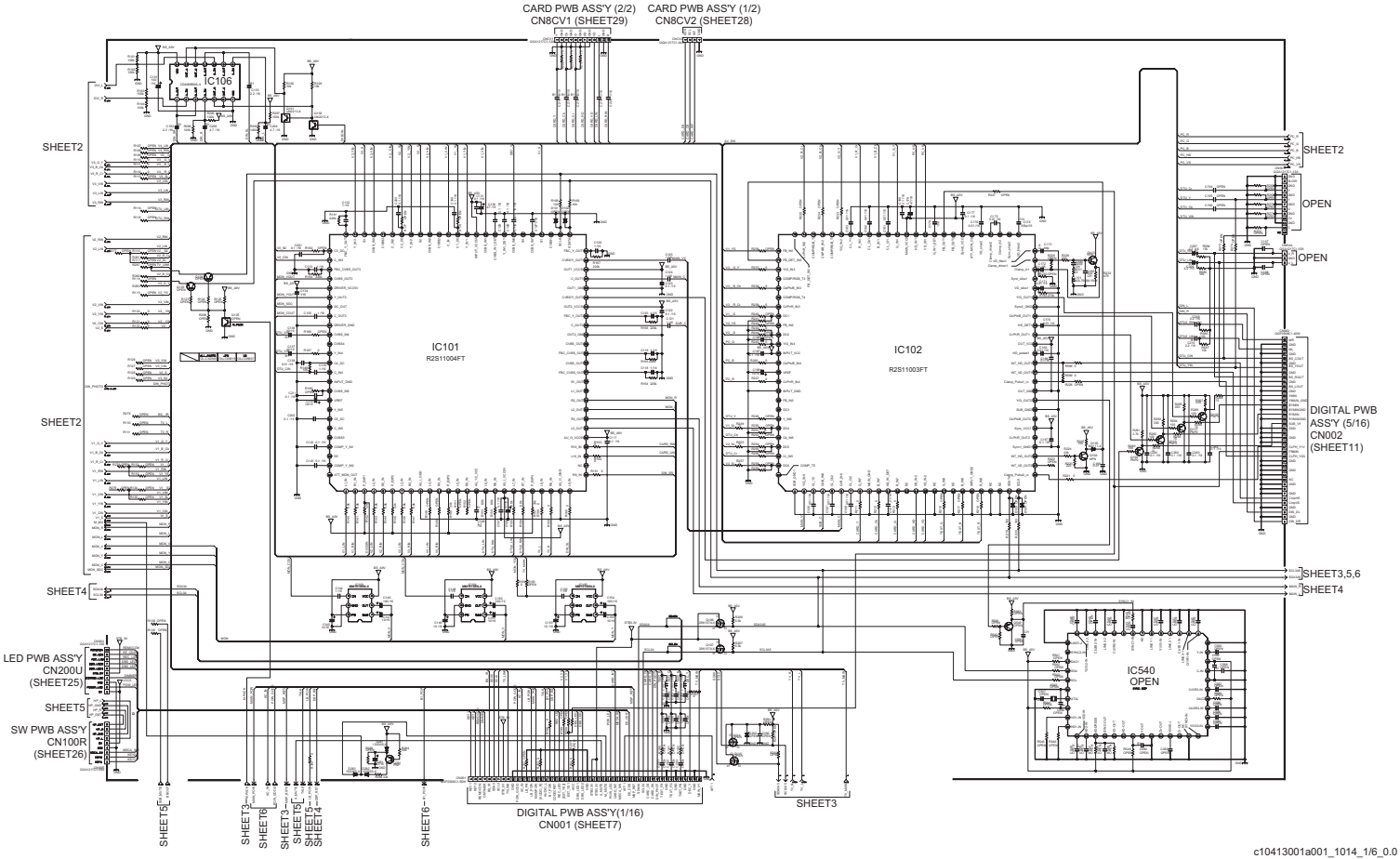
WIRING DIAGRAM



ANALOG PWB CIRCUIT DIAGRAM (1/6) SHEET 1

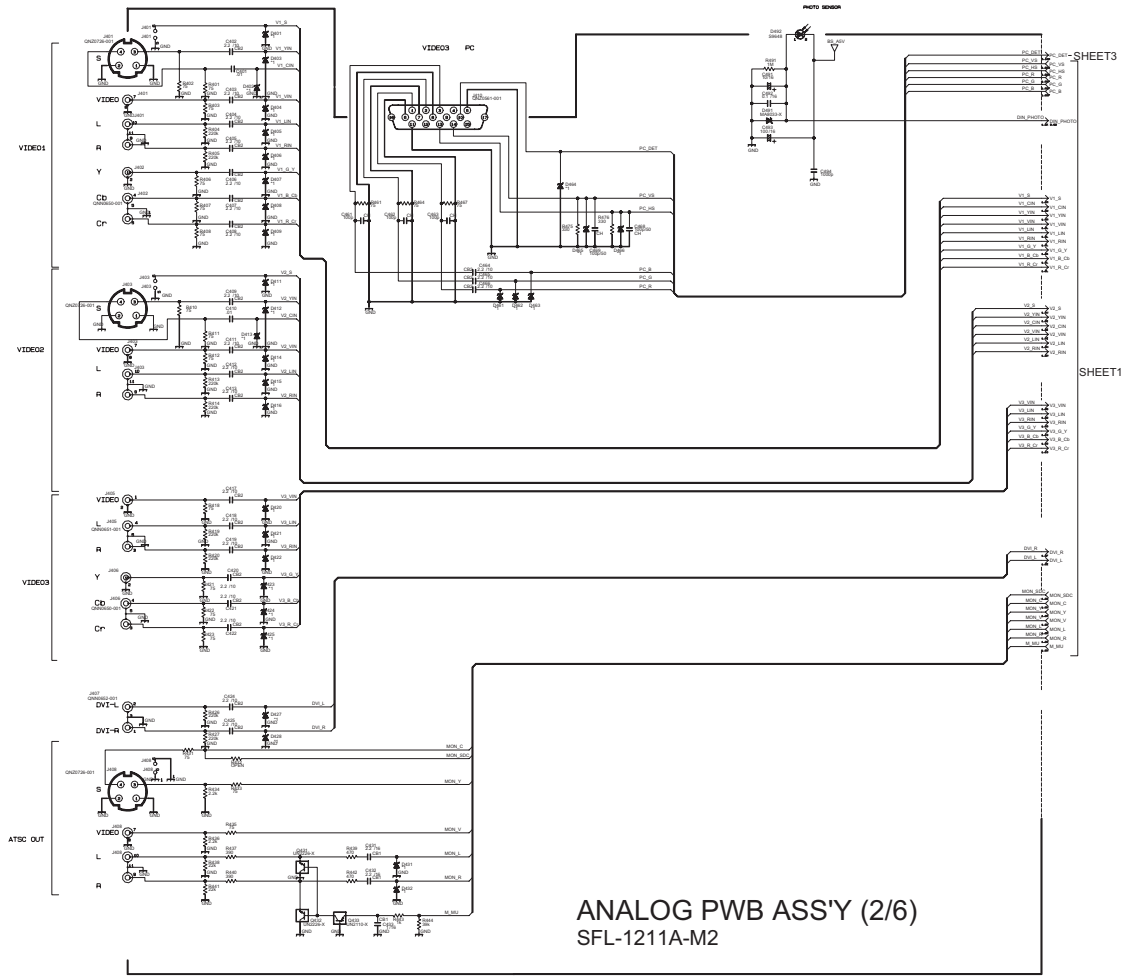
ANALOG PWB ASS'Y (1/6)

SFL-1211A-M2



c10413001a001_1014_1/6_0.0

ANALOG PWB CIRCUIT DIAGRAM (2/6) SHEET 2

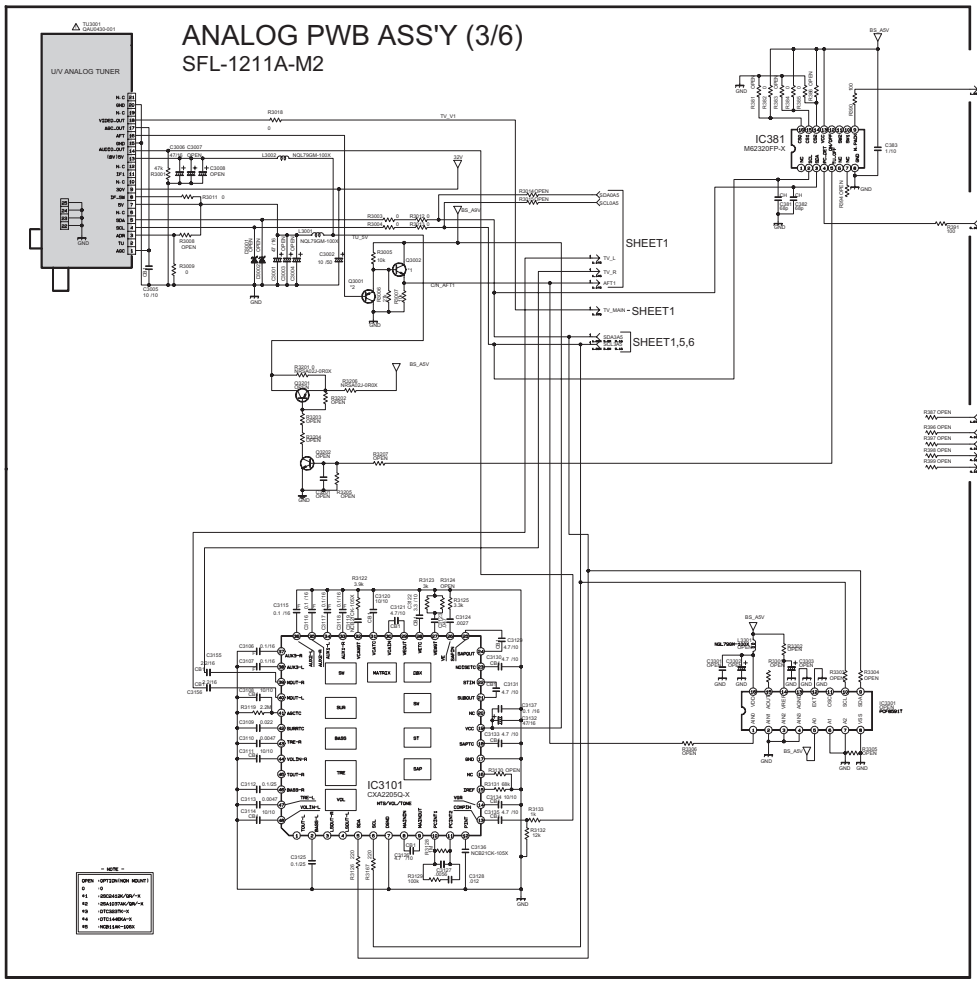


ANALOG PWB ASS'Y (2/6)

SFL-1211A-M2

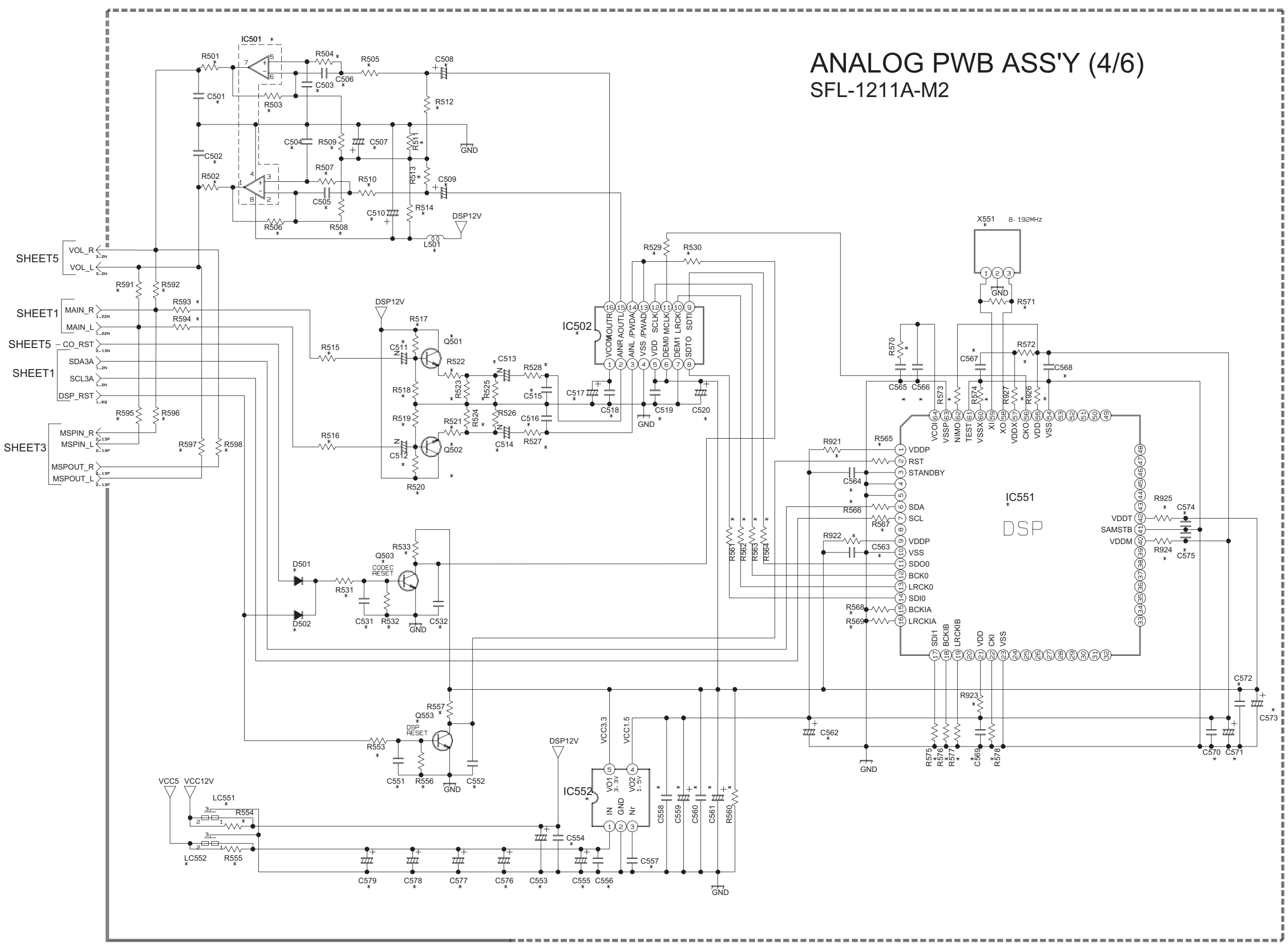
c10413001a006_1014_6/6_0.0

ANALOG PWB CIRCUIT DIAGRAM (3/6) SHEET 3



c10413001a002_1014_2/6_0.0

ANALOG PWB CIRCUIT DIAGRAM (4/6) SHEET 4



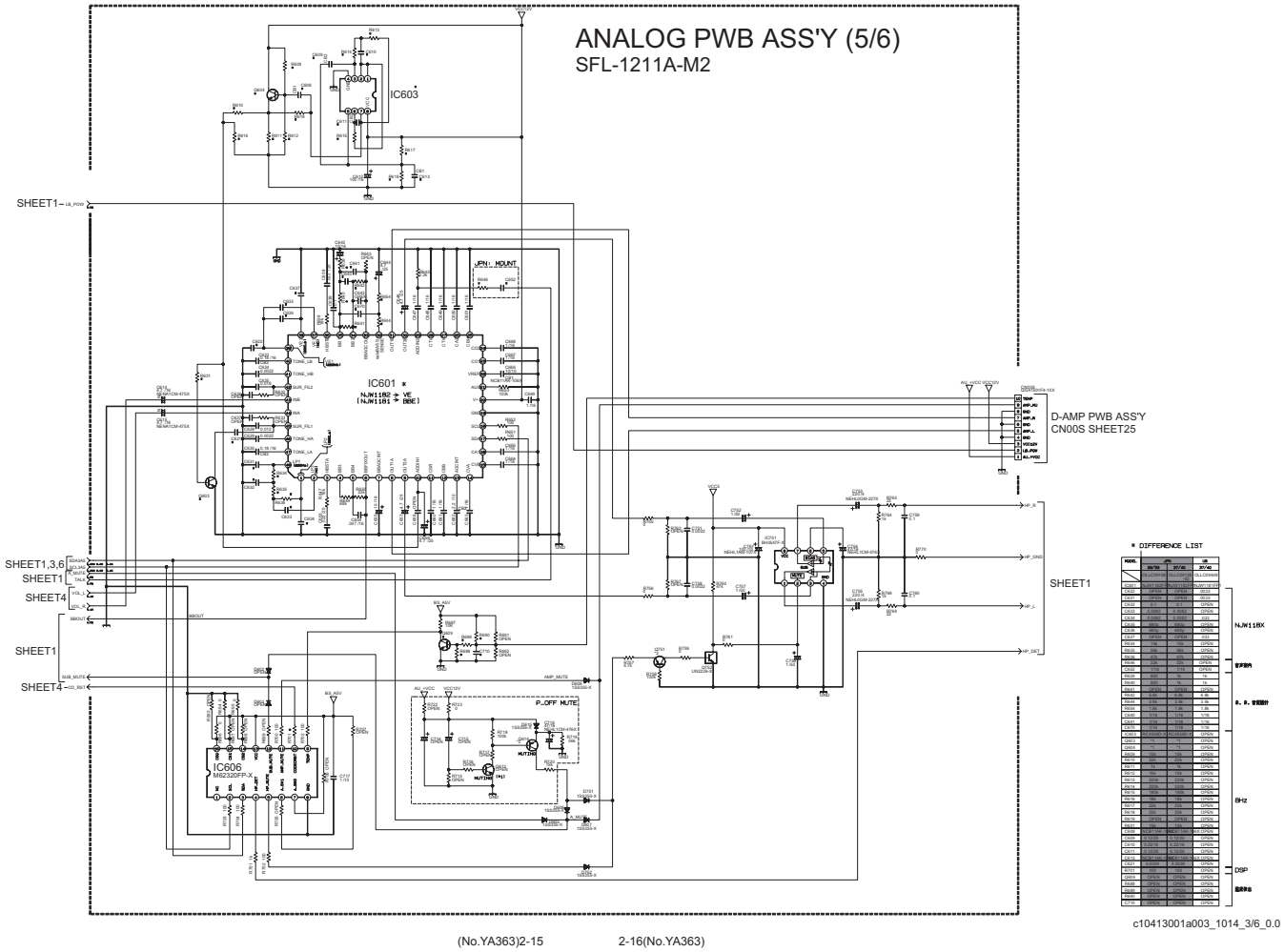
MODEL	JPN		US
	26/32	37/40	40
	OLLC09108	OLLC09108-02	OLLC09448
R591	OPEN	OPEN	0
R592	OPEN	OPEN	0
R593	0	0	OPEN
R594	0	0	OPEN
R595	OPEN	OPEN	OPEN
R596	OPEN	OPEN	OPEN
R597	OPEN	OPEN	OPEN
R598	OPEN	OPEN	OPEN

MODEL	JPN		US
	26/32	37/40	40
	OLLC09108	OLLC09108-02	OLLC09448
C501	NCB31HK-223X	NCB31HK-223X	OPEN
C502	NCB31HK-223X	NCB31HK-223X	OPEN
C503	0.0022	0.0022	OPEN
C504	0.0022	0.0022	OPEN
C505	0.0082	0.0082	OPEN
C506	0.0082	0.0082	OPEN
C507	NEHL1AM-107X	NEHL1AM-107X	OPEN
C508	1/50	1/50	OPEN
C509	1/50	1/50	OPEN
C510	NEHL1CM-476X	NEHL1CM-476X	OPEN
C511	NENA1CM-475X	NENA1CM-475X	OPEN
C512	NENA1CM-475X	NENA1CM-475X	OPEN
C513	NENA1CM-475X	NENA1CM-475X	OPEN
C514	NENA1CM-475X	NENA1CM-475X	OPEN
C515	1000p	1000p	OPEN
C516	1000p	1000p	OPEN
C517	NEHL1EM-475X	NEHL1EM-475X	OPEN
C518	0.1	0.1	OPEN
C519	0.1	0.1	OPEN
C520	NEHL1CM-106X	NEHL1CM-106X	OPEN
C531	1000p	1000p	OPEN
C532	1000p	1000p	OPEN
C551	1000p	1000p	OPEN
C552	1000p	1000p	OPEN
C553	47/16	47/16	OPEN
C554	0.1	0.1	OPEN
C555	NEHL1AM-107X	NEHL1AM-107X	NEHL1AM-107X
C556	0.1	0.1	OPEN
C557	0.1	0.1	OPEN
C558	NCB30JK-225X	NCB30JK-225X	OPEN
C559	NEHL0JM-226X	NEHL0JM-226X	OPEN
C560	NCB30JK-225X	NCB30JK-225X	OPEN
C561	NEHL0JM-226X	NEHL0JM-226X	OPEN
C562	NEHL0JM-226X	NEHL0JM-226X	OPEN
C563	0.01	0.01	OPEN
C564	0.01	0.01	OPEN
C565	0.1	0.1	OPEN
C566	0.1	0.1	OPEN
C567	0.01	0.01	OPEN
C568	0.01	0.01	OPEN
C569	0.01	0.01	OPEN
C570	NRSA63J-222X	NRSA63J-222X	OPEN
C571	NEHL0JM-226X	NEHL0JM-226X	OPEN
C572	NCB31CK-105X	NCB31CK-105X	OPEN
C573	NEHL0JM-226X	NEHL0JM-226X	OPEN
C574	0.01	0.01	OPEN
C575	0.01	0.01	OPEN
C576	NEHL1AM-107X	NEHL1AM-107X	NEHL1AM-107X
C577	NEHL1AM-107X	NEHL1AM-107X	NEHL1AM-107X
C578	NEHL1AM-107X	NEHL1AM-107X	NEHL1AM-107X
C579	NEHL1AM-107X	NEHL1AM-107X	NEHL1AM-107X

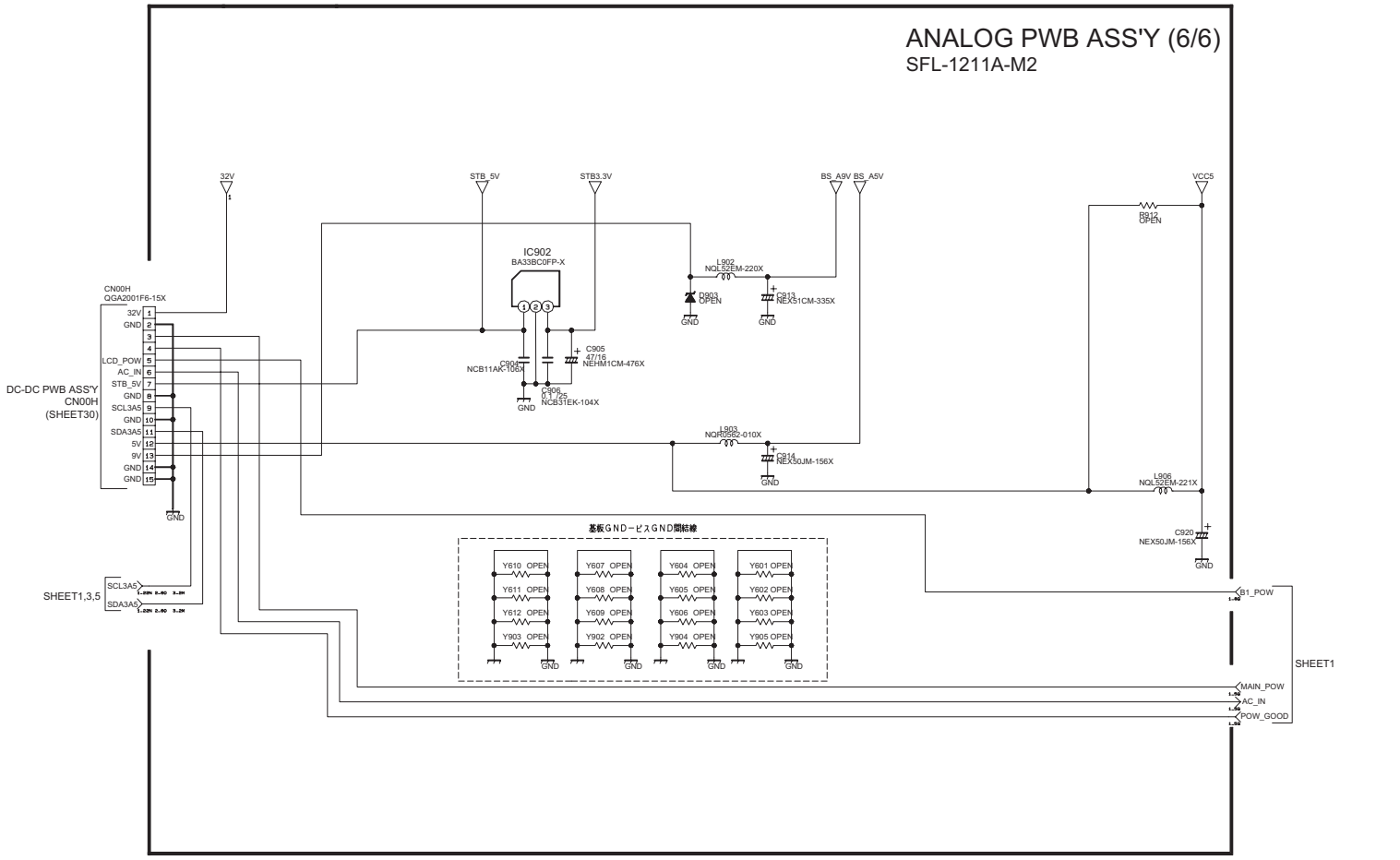
MODEL	JPN		US
	26/32	37/40	40
	OLLC09108	OLLC09108-02	OLLC09448
IC501	HA17558AF-X	HA17558AF-X	OPEN
IC502	AK4554VT-X	AK4554VT-X	OPEN
IC551	JCV8010	JCV8010	OPEN
IC552	PQ2L3152MS-X	PQ2L3152MS-X	OPEN
X551	NAX0623-001X	NAX0623-001X	OPEN
L501	NRSA02J-0R0X	NRSA02J-0R0X	OPEN
LC551	OPEN	OPEN	OPEN
LC552	OPEN	OPEN	OPEN
Q501	NPN	NPN	OPEN
Q502	NPN	NPN	OPEN
Q503	NPN	NPN	OPEN
Q553	NPN	NPN	OPEN
R501	220	220	OPEN
R502	220	220	OPEN
R503	4.7k	4.7k	OPEN
R504	3.3k	3.3k	OPEN
R505	3.3k	3.3k	OPEN
R506	4.7k	4.7k	OPEN
R507	3.3k	3.3k	OPEN
R508	1k	1k	OPEN
R509	1k	1k	OPEN
R510	3.3k	3.3k	OPEN
R511	10k	10k	OPEN
R512	33k	33k	OPEN
R513	33k	33k	OPEN
R514	10k	10k	OPEN
R515	0	0	OPEN
R516	0	0	OPEN
R517	33k	33k	OPEN
R518	33k	33k	OPEN
R519	33k	33k	OPEN
R520	33k	33k	OPEN
R521	2.2k	2.2k	OPEN
R522	2.2k	2.2k	OPEN
R523	1k	1k	OPEN
R524	1k	1k	OPEN
R525	1k	1k	OPEN
R526	1k	1k	OPEN
R527	470	470	OPEN
R528	470	470	OPEN
R529	100	100	OPEN
R530	0	0	OPEN
R531	10k	10k	OPEN
R532	10k	10k	OPEN
R533	10k	10k	OPEN
R553	10k	10k	OPEN
R554	0	0	OPEN
R555	0	0	0
R556	10k	10k	OPEN
R557	10k	10k	OPEN
R560	6.8k	6.8k	OPEN
R561	220	220	OPEN
R562	220	220	OPEN
R563	220	220	OPEN
R564	220	220	OPEN
R565	0	0	OPEN
R566	100	100	OPEN
R567	100	100	OPEN
R568	10k	10k	OPEN
R569	10k	10k	OPEN
R570	100	100	OPEN
R571	1M	1M	OPEN
R572	4.7	4.7	OPEN
R573	10k	10k	OPEN
R574	0	0	OPEN
R575	10k	10k	OPEN
R576	10k	10k	OPEN
R577	10k	10k	OPEN
R578	10k	10k	OPEN
R921	0	0	OPEN
R922	0	0	OPEN
R923	0	0	OPEN
R924	0	0	OPEN
R925	0	0	OPEN
R926	0	0	OPEN
R927	0	0	OPEN
D501	1SS355-X	1SS355-X	OPEN
D502	1SS355-X	1SS355-X	OPEN

c10413001a004_1014_4/6_0.0

ANALOG PWB CIRCUIT DIAGRAM (5/6) SHEET 5

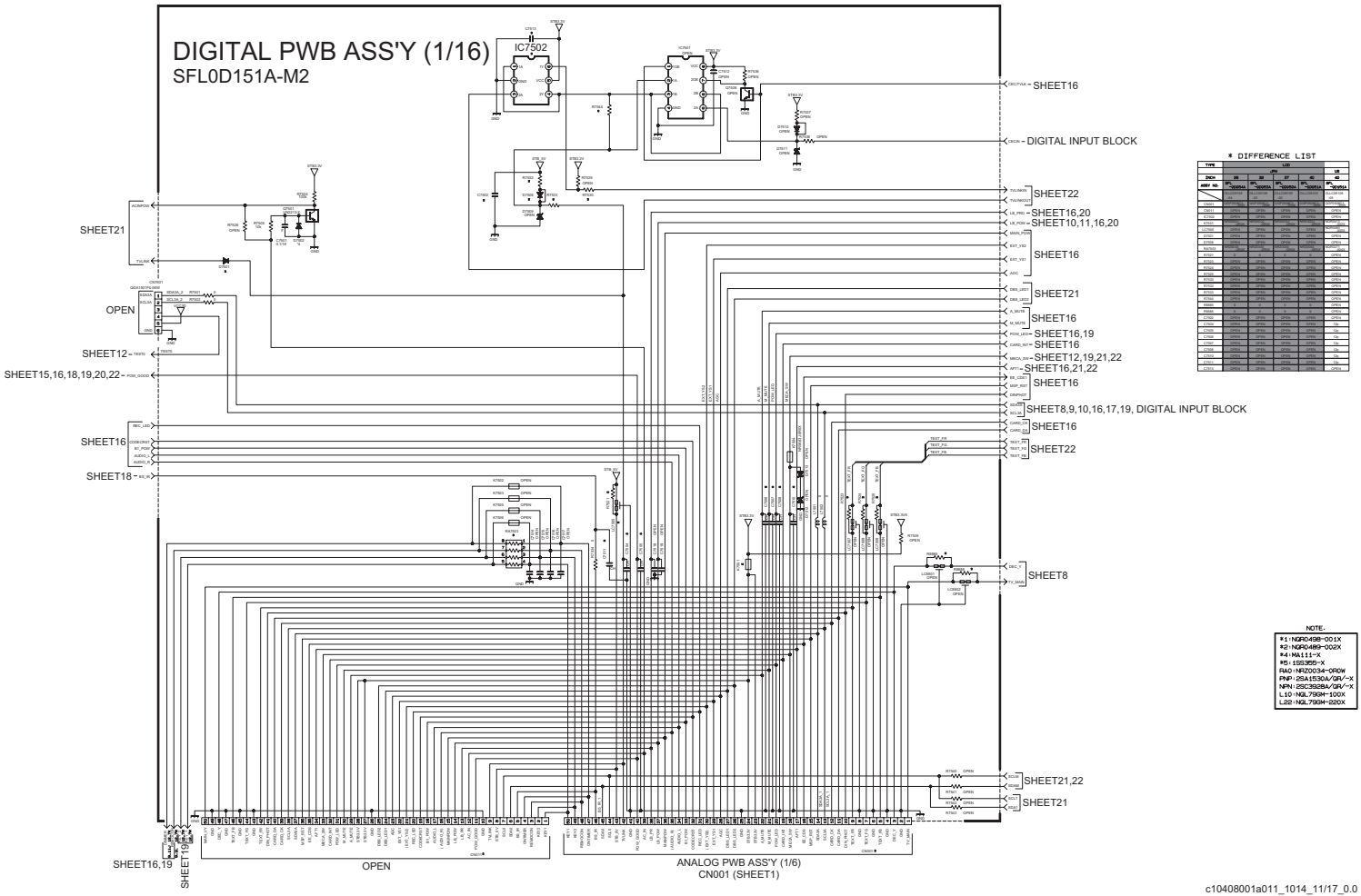


ANALOG PWB CIRCUIT DIAGRAM (6/6) SHEET 6



c10413001a005_1014_5/6_0.0

DIGITAL PWB CIRCUIT DIAGRAM (1/16) SHEET 7

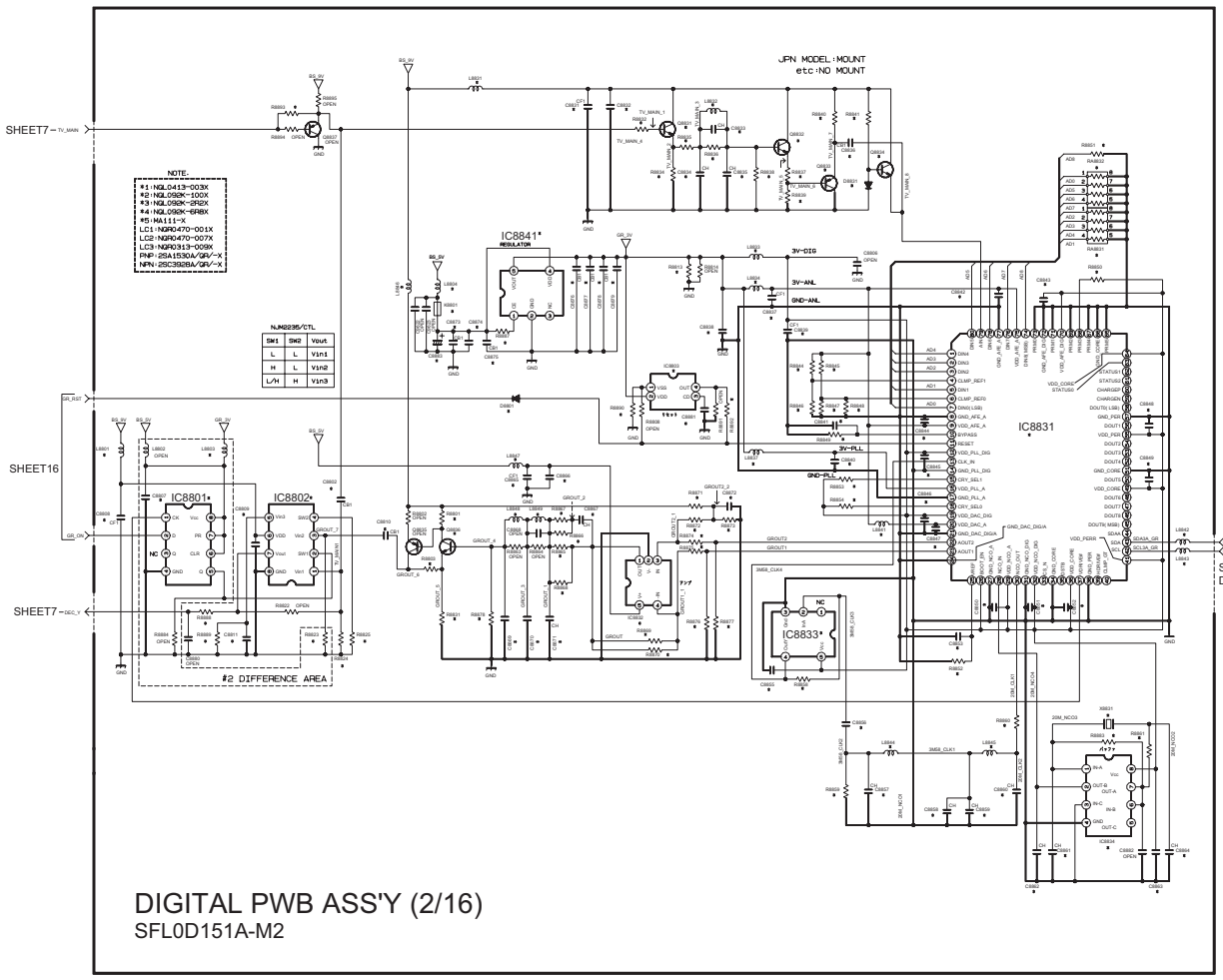


* DIFFERENCE LIST

TYPE	LCD					
INCH	JPN				US	
ASSY NO.	25	32	37	42	32	37
	SFL-C025A1	SFL-C032A1	SFL-C037A1	SFL-C042A1	SFL-C032A1	SFL-C037A1
CN211	GP15	GP15	GP15	GP15	GP15	GP15
CN212	GP15	GP15	GP15	GP15	GP15	GP15
CN213	GP15	GP15	GP15	GP15	GP15	GP15
CN214	GP15	GP15	GP15	GP15	GP15	GP15
CN215	GP15	GP15	GP15	GP15	GP15	GP15
CN216	GP15	GP15	GP15	GP15	GP15	GP15
CN217	GP15	GP15	GP15	GP15	GP15	GP15
CN218	GP15	GP15	GP15	GP15	GP15	GP15
CN219	GP15	GP15	GP15	GP15	GP15	GP15
CN220	GP15	GP15	GP15	GP15	GP15	GP15
CN221	GP15	GP15	GP15	GP15	GP15	GP15
CN222	GP15	GP15	GP15	GP15	GP15	GP15
CN223	GP15	GP15	GP15	GP15	GP15	GP15
CN224	GP15	GP15	GP15	GP15	GP15	GP15
CN225	GP15	GP15	GP15	GP15	GP15	GP15
CN226	GP15	GP15	GP15	GP15	GP15	GP15
CN227	GP15	GP15	GP15	GP15	GP15	GP15
CN228	GP15	GP15	GP15	GP15	GP15	GP15
CN229	GP15	GP15	GP15	GP15	GP15	GP15
CN230	GP15	GP15	GP15	GP15	GP15	GP15
CN231	GP15	GP15	GP15	GP15	GP15	GP15
CN232	GP15	GP15	GP15	GP15	GP15	GP15
CN233	GP15	GP15	GP15	GP15	GP15	GP15
CN234	GP15	GP15	GP15	GP15	GP15	GP15
CN235	GP15	GP15	GP15	GP15	GP15	GP15
CN236	GP15	GP15	GP15	GP15	GP15	GP15
CN237	GP15	GP15	GP15	GP15	GP15	GP15
CN238	GP15	GP15	GP15	GP15	GP15	GP15
CN239	GP15	GP15	GP15	GP15	GP15	GP15

NOTE.
#1:NQR049B-001X
#2:NQR049B-002X
#4:MA111-X
#5:1SS355-X
RA0:NRZ0034-0RDW
PNP:2SA1530A/QR/-X
NPN:2SC3928A/QR/-X
L10:NQL799M-100X
L22:NQL799M-220X

c10408001a011_1014_11/17_0.0



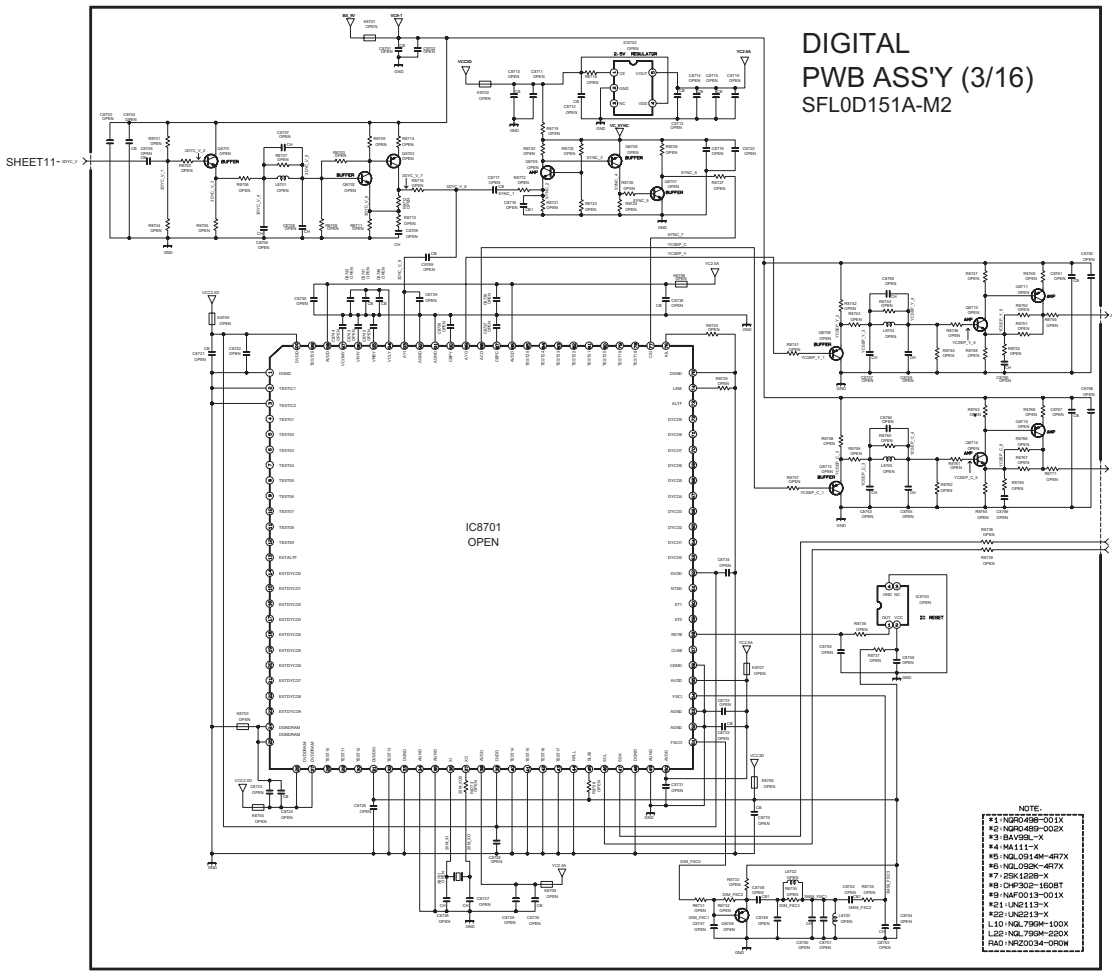
DIGITAL PWB ASS'Y (2/16)

SFL0D151A-M2

* DIFFERENCE LIST

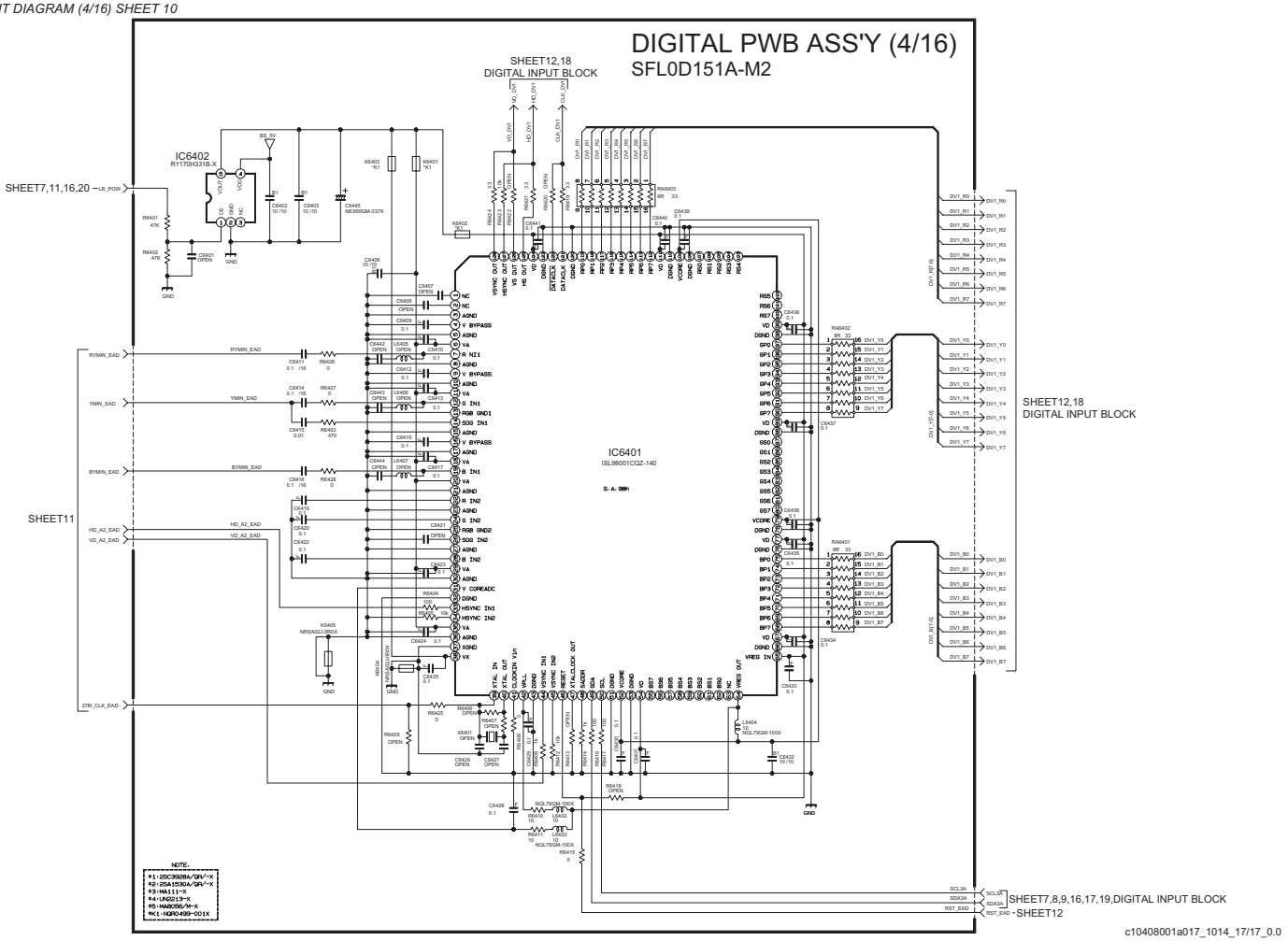
c10408001a015_1014_15/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (3/16) SHEET 9



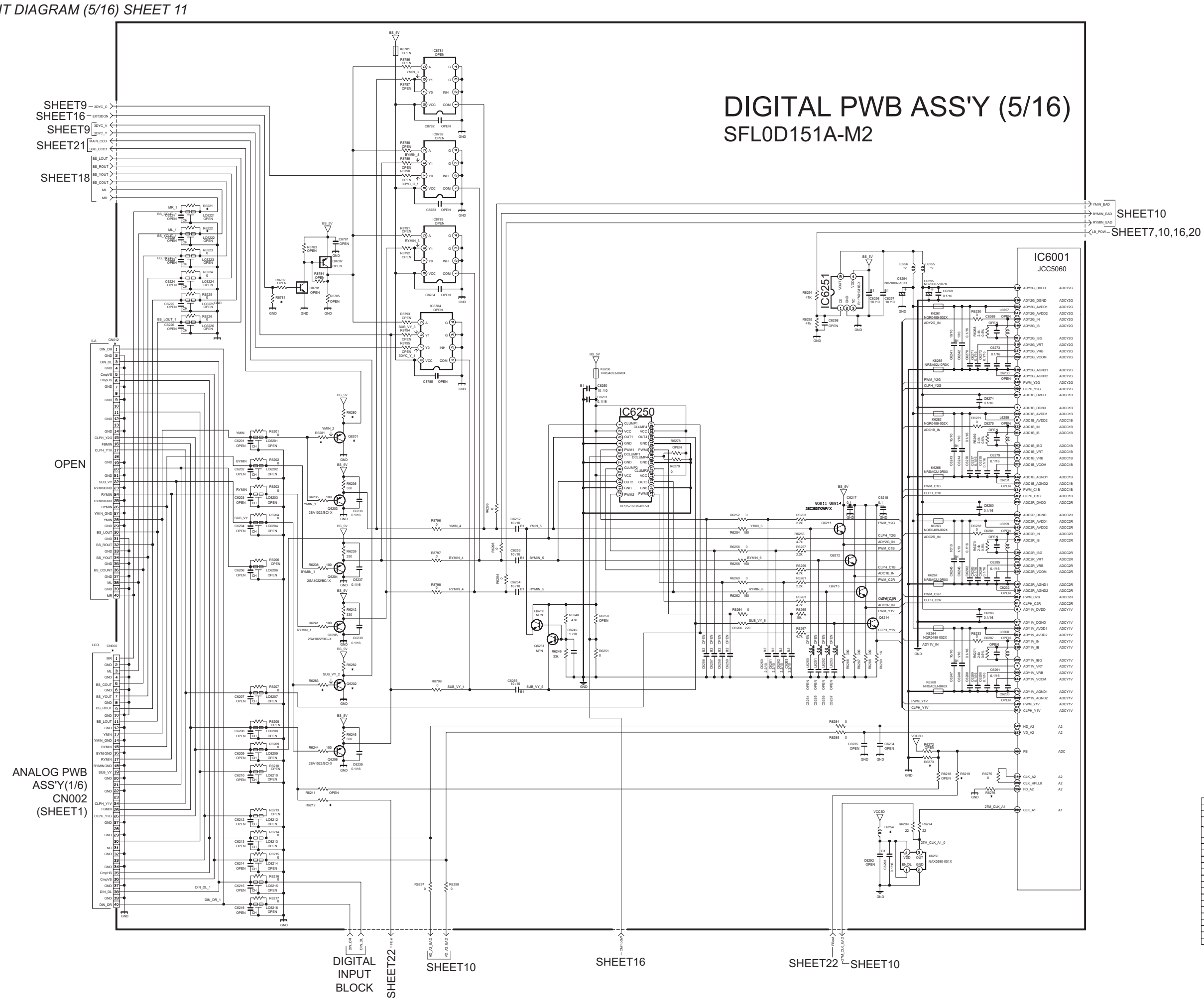
c10408001a014_1014_14/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (4/16) SHEET 10



c10408001a017_1014_17/17_0.0

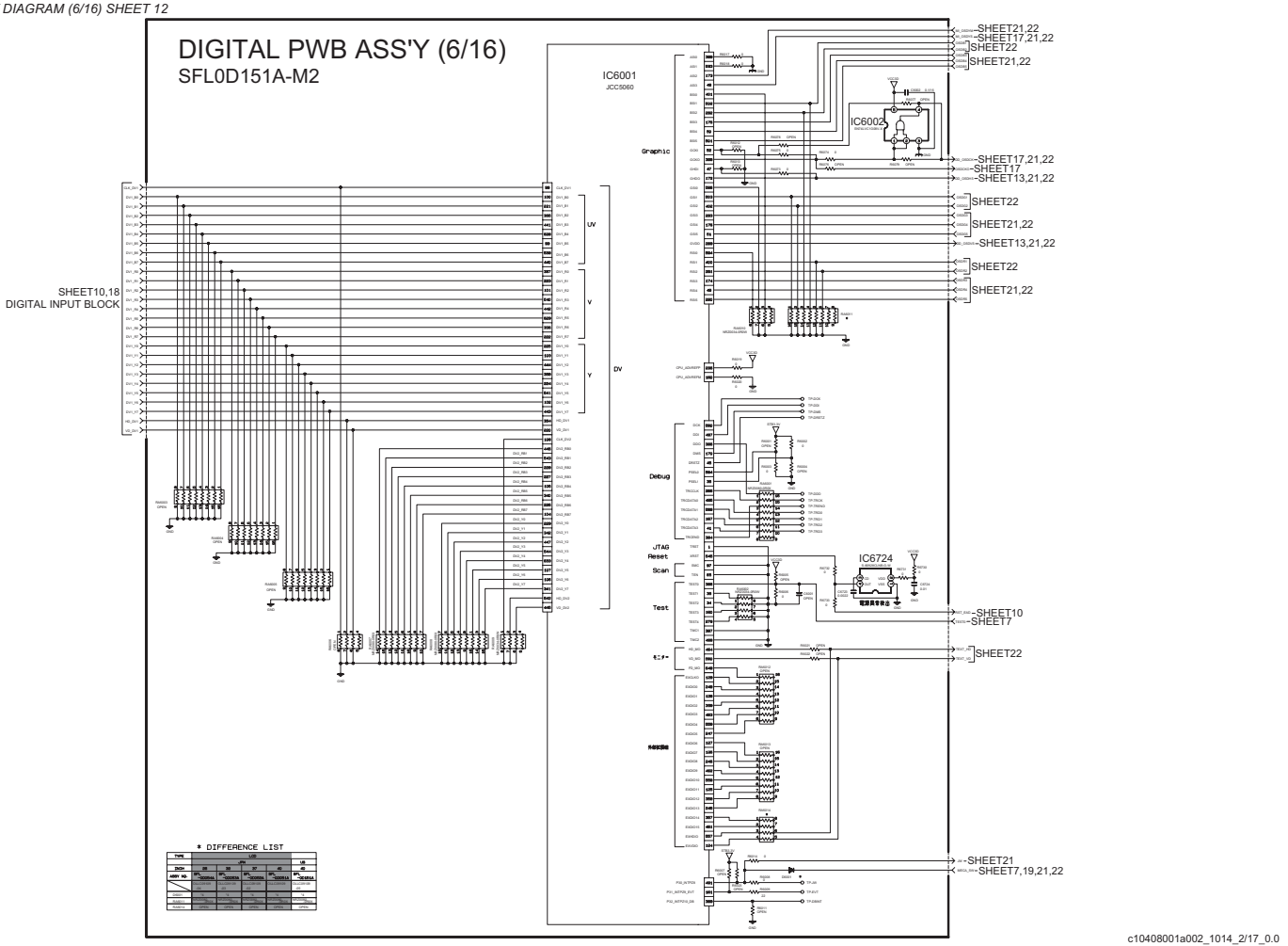
DIGITAL PWB CIRCUIT DIAGRAM (5/16) SHEET 11



* DIFFERENCE LIST

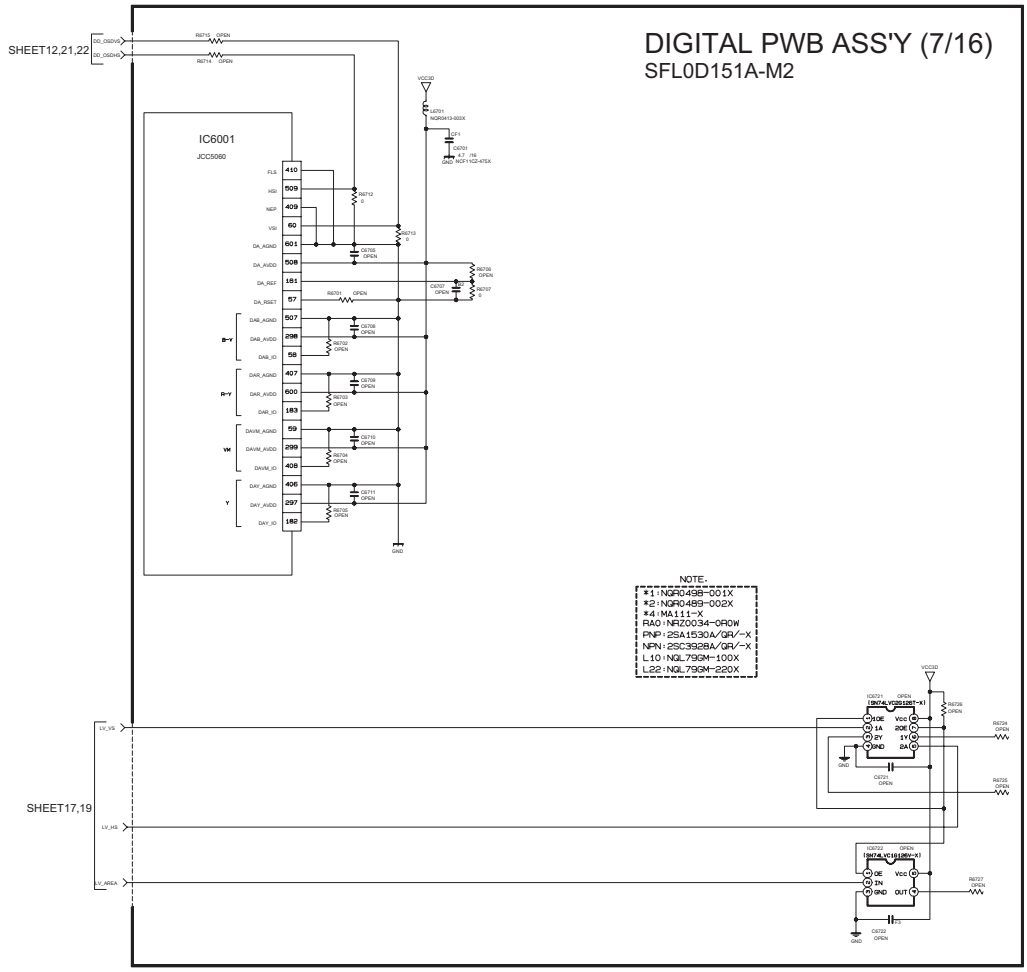
TYPE	LCD				
	JPN				US
INCH	26	32	37	40	40
ASSY NO.	SFL -0D054A	SFL -0D053A	SFL -0D052A	SFL -0D051A	SFL -0D151A
	OLLC09109 -04	OLLC09109 -03	OLLC09109 -02	OLLC09109	OLLC09109 -05
CN002	QGF0508C1 -40W	QGF0508C1 -40W	QGF0508C1 -40W	QGF0508C1 -40W	QGF0508C1 -40W
CN012	OPEN	OPEN	OPEN	OPEN	OPEN
Q6201	OPEN	OPEN	OPEN	OPEN	PNP
Q6202	OPEN	OPEN	OPEN	OPEN	PNP
L6254	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X
R6208	OPEN	OPEN	OPEN	OPEN	OPEN
R6212	OPEN	OPEN	OPEN	OPEN	OPEN
R6219	OPEN	OPEN	OPEN	OPEN	OPEN
R6221	0	0	0	0	OPEN
R6222	0	0	0	0	OPEN
R6273	0	0	0	0	0
R6276	0	0	0	0	0
R6280	OPEN	OPEN	OPEN	OPEN	330
R6281	OPEN	OPEN	OPEN	OPEN	100
R6282	OPEN	OPEN	OPEN	OPEN	330
R6283	OPEN	OPEN	OPEN	OPEN	100
R8781	OPEN	OPEN	OPEN	OPEN	OPEN

c10408001a001_1014_1/17_0.0



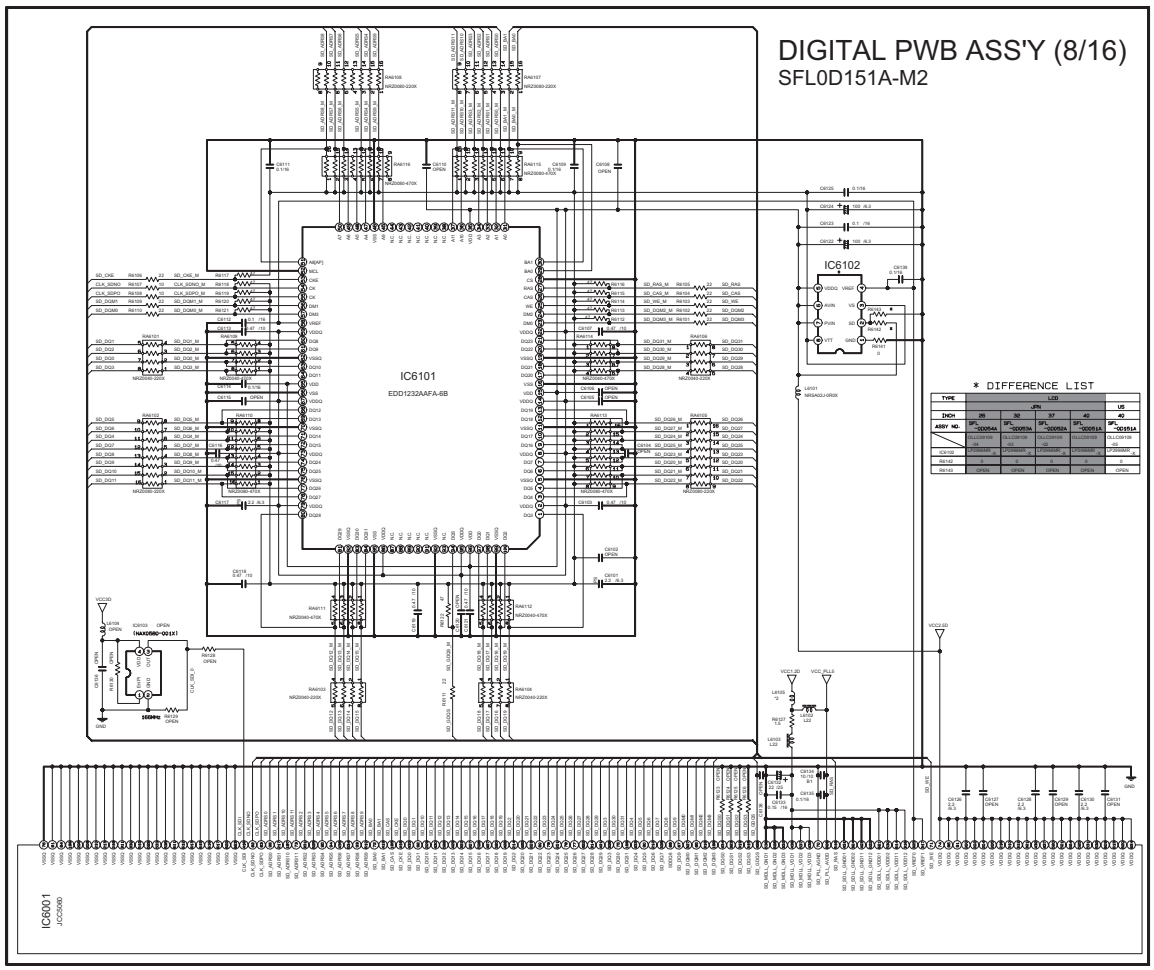
c10408001a002_1014_2/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (7/16) SHEET 13



c10408001a005_1014_5/17_0.0

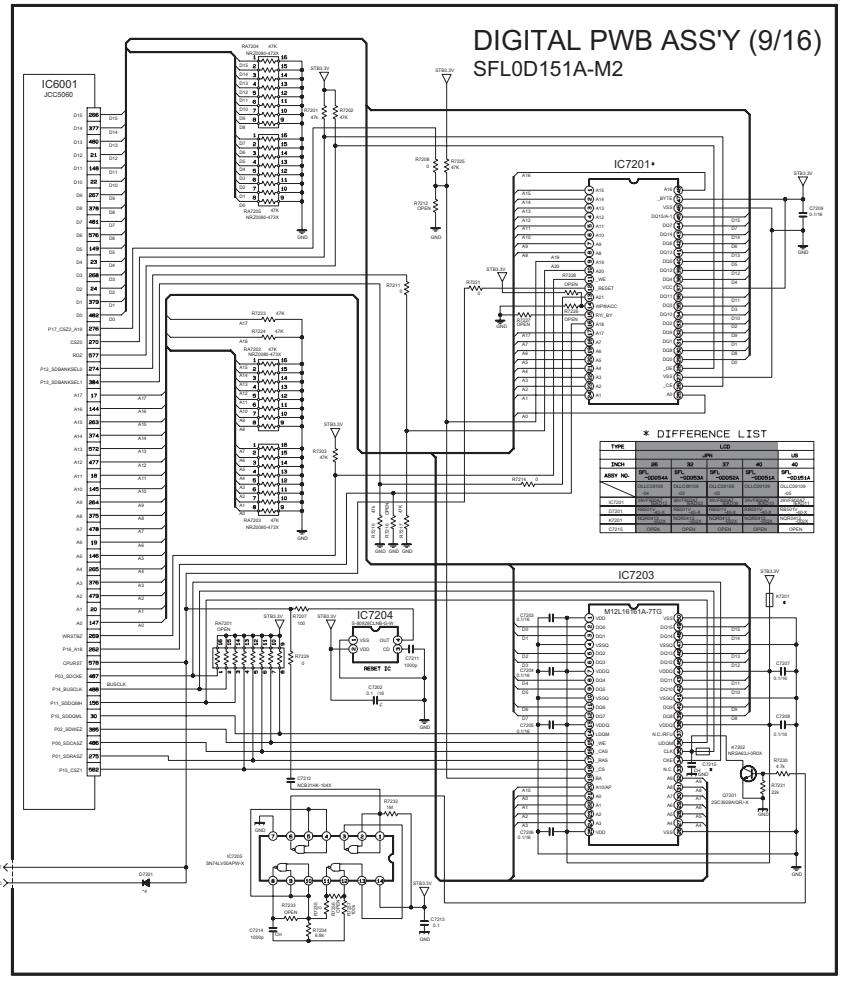
DIGITAL PWB CIRCUIT DIAGRAM (8/16) SHEET 14



TYPE	LED				
	JPN				US
INCH	26	32	37	40	40
ASSY NO.	SFL-C0D154A	SFL-C0D153A	SFL-C0D152A	SFL-C0D151A	SFL-C0D151A
	CLLC0910-04	CLLC0910-02	CLLC0910-03	CLLC0910-05	CLLC0910-05
IC6102	7Z29B0AR_A	7Z29B0AR_A	7Z29B0AR_A	7Z29B0AR_A	7Z29B0AR_A
R6142	0	0	0	0	0
R6143	OPEN	OPEN	OPEN	OPEN	OPEN

c10408001a003_1014_3/17_0.0

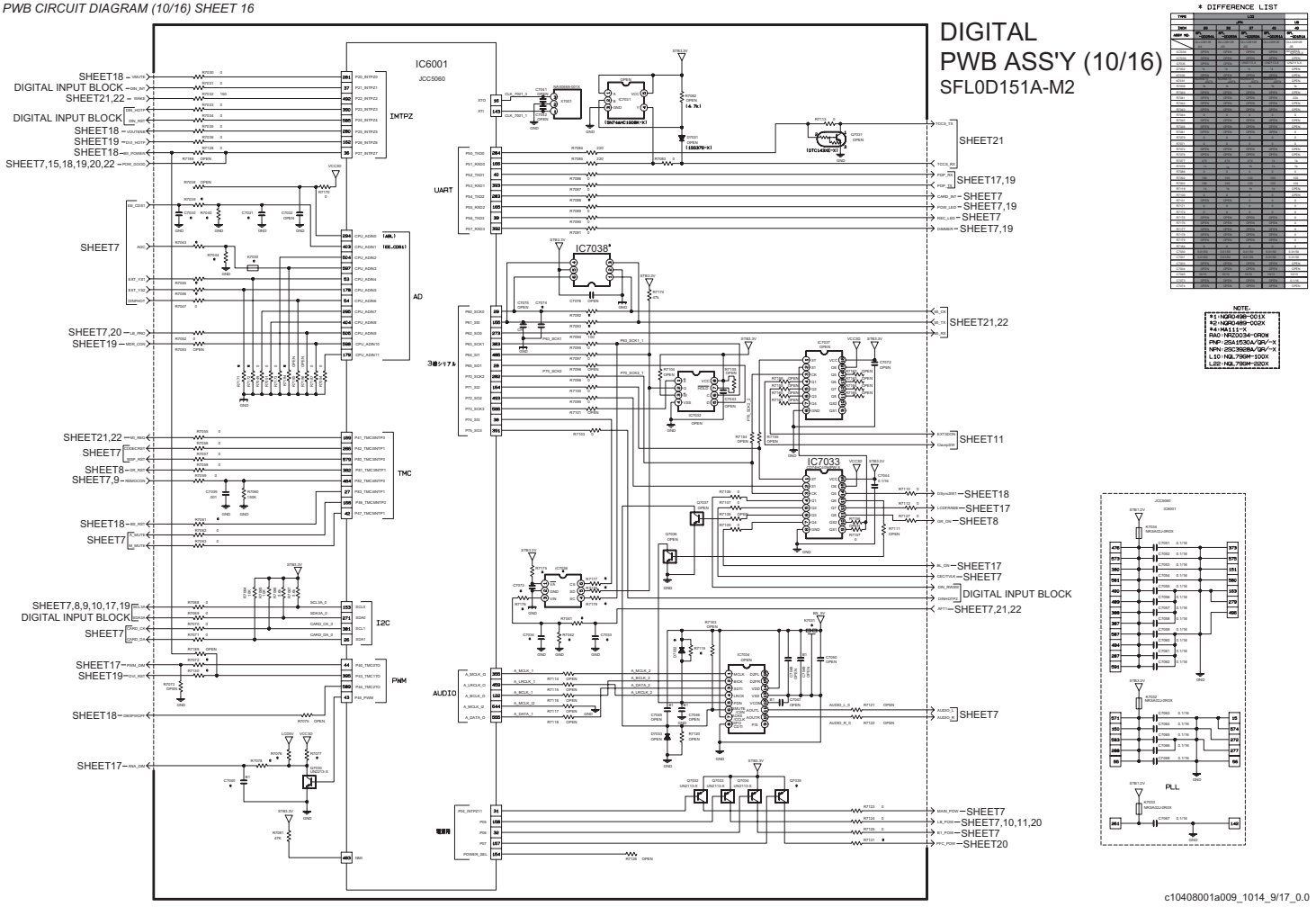
DIGITAL PWB CIRCUIT DIAGRAM (9/16) SHEET 15



c10408001a008_1014_8/17_0.0

DIGITAL PWB ASS'Y (10/16)

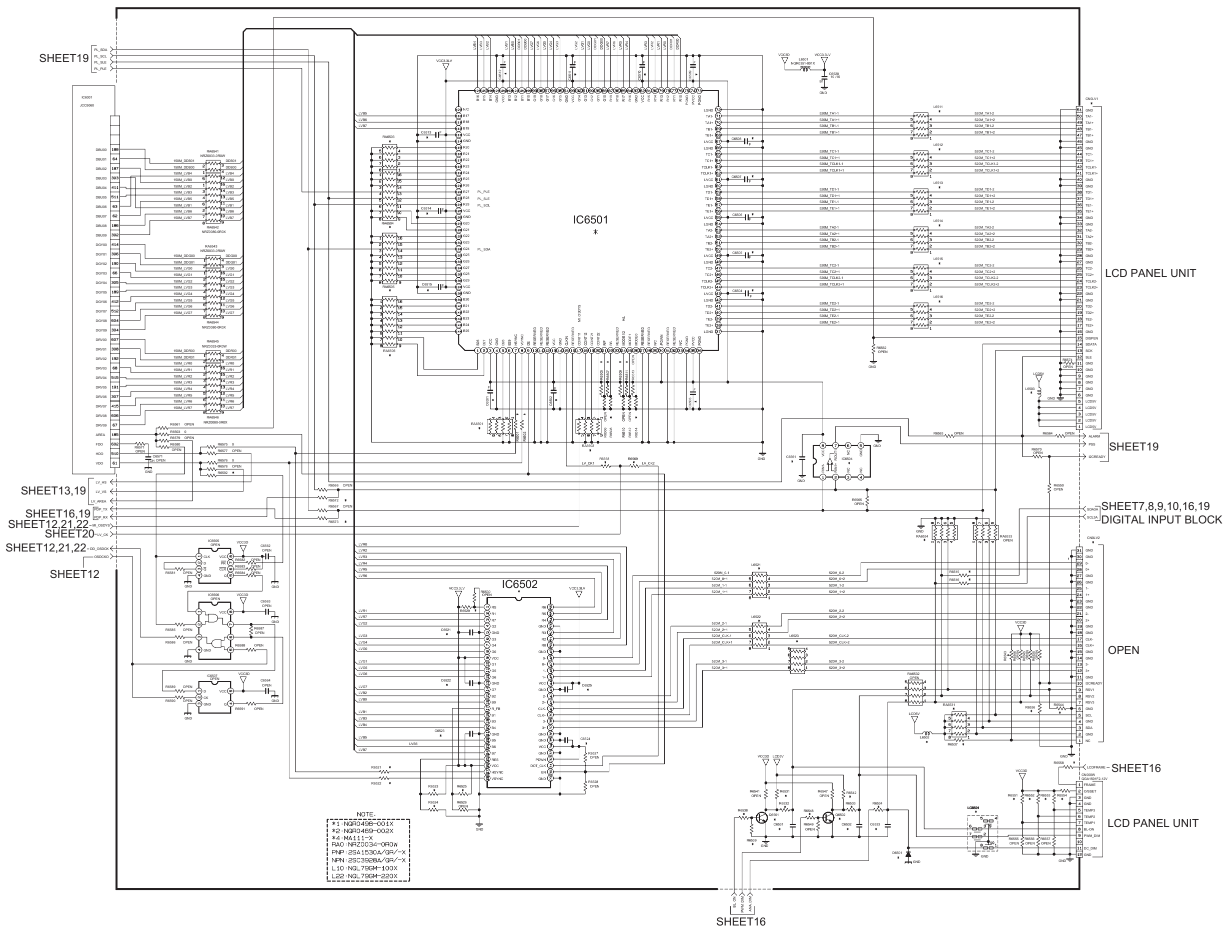
SFL0D151A-M2



NOTE:
*1:NQR0498-001X
*2:NQR0489-002X
*4:HA111-X
RAD:HR20234-ORDW
PNP:2SA1530A/QR/-X
NPN:2SC3928A/QR/-X
L10:NQL79GM-100X
L22:NQL79GM-220X

c10408001a009_1014_9/17_0.0

DIGITAL PWB ASS'Y (11/16)
SFL0D151A-M2

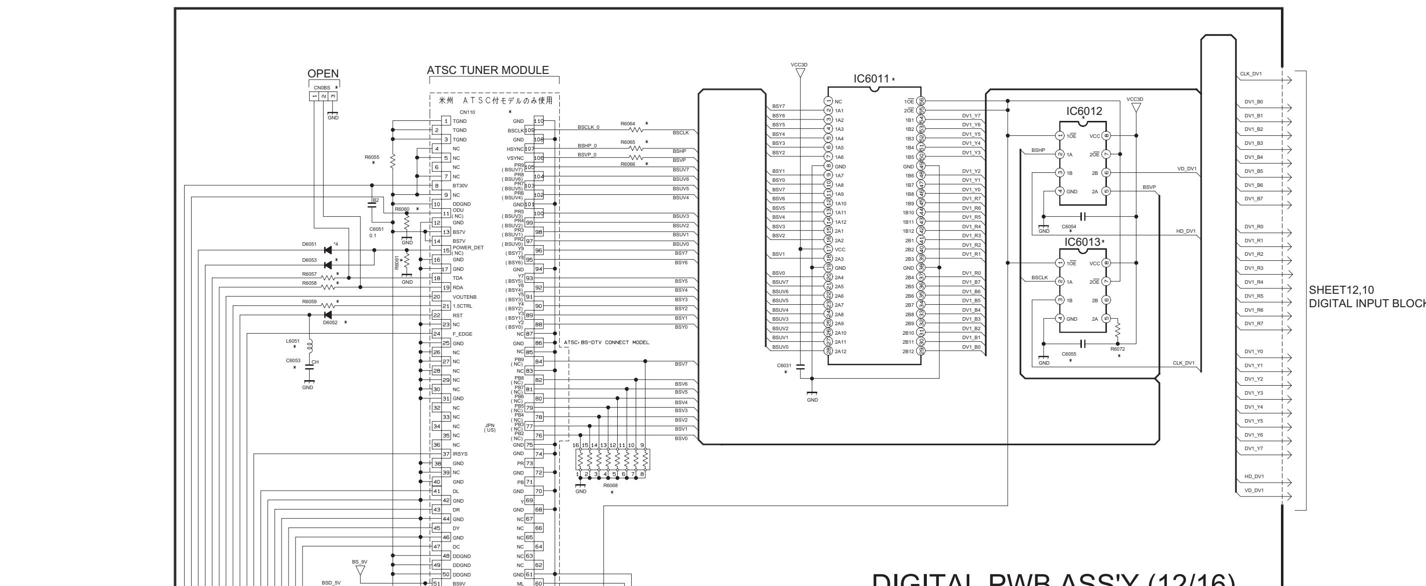


* DIFFERENCE LIST

TYPE	LCD				
	JPN				US
INCH	26	32	37	40	40
ASSY NO.	SFL -0D054A	SFL -0D053A	SFL -0D052A	SFL -0D051A	SFL -0D151A
	OLLC09109 -04	OLLC09109 -03	OLLC09109 -02	OLLC09109	OLLC09109 -05
CN0LV1	QGA0504F1 -51X	QGA0504F1 -51X	QGA0504F1 -51X	QGA0504F1 -51X	QGA0504F1 -51X
CN0LV2	QGA0504F1 -31X	QGA0504F1 -31X	QGA0504F1 -31X	QGA0504F1 -31X	OPEN
IC6501	OPEN	OPEN	OPEN	THC63LVD 1023	THC63LVD 1023
IC6502	THC63LV DM83R-W	THC63LV DM83R-W	THC63LV DM83R-W	OPEN	OPEN
Q6501	NPN	NPN	NPN	NPN	NPN
Q6502	OPEN	OPEN	OPEN	NPN	NPN
D6501	OPEN	OPEN	OPEN	OPEN	OPEN
LC6501	NQR0479 -001X	NQR0479 -001X	NQR0479 -001X	NQR0479 -001X	NQR0479 -001X
L6502	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X	OPEN	OPEN
L6503	OPEN	OPEN	OPEN	NRSA02J -0R0X	NRSA02J -0R0X
L6511	OPEN	OPEN	OPEN	RA0	RA0
L6512	OPEN	OPEN	OPEN	RA0	RA0
L6513	OPEN	OPEN	OPEN	RA0	RA0
L6514	OPEN	OPEN	OPEN	RA0	RA0
L6515	OPEN	OPEN	OPEN	RA0	RA0
L6516	OPEN	OPEN	OPEN	RA0	RA0
L6521	RA0	RA0	RA0	OPEN	OPEN
L6522	RA0	RA0	RA0	OPEN	OPEN
L6523	RA0	RA0	RA0	OPEN	OPEN
RA6501	OPEN	OPEN	OPEN	RA0	RA0
RA6502	OPEN	OPEN	OPEN	RA0	RA0
RA6503	OPEN	OPEN	OPEN	RA0	RA0
RA6504	OPEN	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
RA6505	OPEN	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
RA6506	OPEN	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
RA6531	RA0	RA0	RA0	OPEN	OPEN
RA6534	RA0	RA0	OPEN	OPEN	OPEN
R6501	OPEN	OPEN	OPEN	100	100
R6502	OPEN	OPEN	OPEN	100	100
R6505	OPEN	OPEN	OPEN	1K	1K
R6507	OPEN	OPEN	OPEN	1K	1K
R6508	OPEN	OPEN	OPEN	OPEN	OPEN
R6509	OPEN	OPEN	OPEN	1K	1K
R6511	OPEN	OPEN	OPEN	1K	1K
R6514	OPEN	OPEN	OPEN	0	0
R6515	OPEN	OPEN	0	OPEN	OPEN
R6516	OPEN	OPEN	0	OPEN	OPEN
R6521	100	100	100	OPEN	OPEN
R6522	100	100	100	OPEN	OPEN
R6523	1K	1K	1K	OPEN	OPEN
R6524	1K	1K	1K	OPEN	OPEN
R6525	0	0	0	OPEN	OPEN
R6529	0	0	0	OPEN	OPEN
R6531	1K	1K	1K	1K	1K
R6532	1K	1K	1K	1K	1K
R6533	0	0	0	0	0
R6534	0	0	0	0	0
R6536	0	0	0	OPEN	OPEN
R6537	OPEN	OPEN	OPEN	OPEN	OPEN
R6538	10K	10K	10K	10K	10K
R6539	47K	47K	47K	47K	47K
R6542	0	0	0	1k	1k
R6543	0	0	0	OPEN	OPEN
R6544	OPEN	OPEN	0	OPEN	OPEN
R6548	OPEN	OPEN	OPEN	1k	1k
R6551	1K	1K	1K	1K	1K
R6552	1K	1K	1K	1K	1K
R6553	1K	1K	1K	1K	1K
R6554	0	0	0	0	0
R6558	1K	1K	1K	1K	1K
R6568	OPEN	OPEN	OPEN	0	0
R6569	0	0	0	OPEN	OPEN
R6572	OPEN	OPEN	OPEN	OPEN	OPEN
R6573	OPEN	OPEN	OPEN	OPEN	OPEN
R6592	OPEN	OPEN	OPEN	OPEN	OPEN
C6501	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6502	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6503	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6504	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6505	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6506	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6507	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6508	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6509	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6510	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6511	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6512	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6513	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6514	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6515	OPEN	OPEN	OPEN	0.1/16	0.1/16
C6521	0.1/16	0.1/16	0.1/16	OPEN	OPEN
C6522	0.1/16	0.1/16	0.1/16	OPEN	OPEN
C6523	0.1/16	0.1/16	0.1/16	OPEN	OPEN
C6524	0.1/16	0.1/16	0.1/16	OPEN	OPEN
C6525	0.1/16	0.1/16	0.1/16	OPEN	OPEN
C6531	0.1/16	0.1/16	0.1/16	0.1/16	0.1/16
C6532	0.1/16	0.1/16	0.1/16	0.1/16	0.1/16
C6533	0.1/16	0.1/16	0.1/16	OPEN	OPEN

c10408001a004_1014_4/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (12/16) SHEET 18



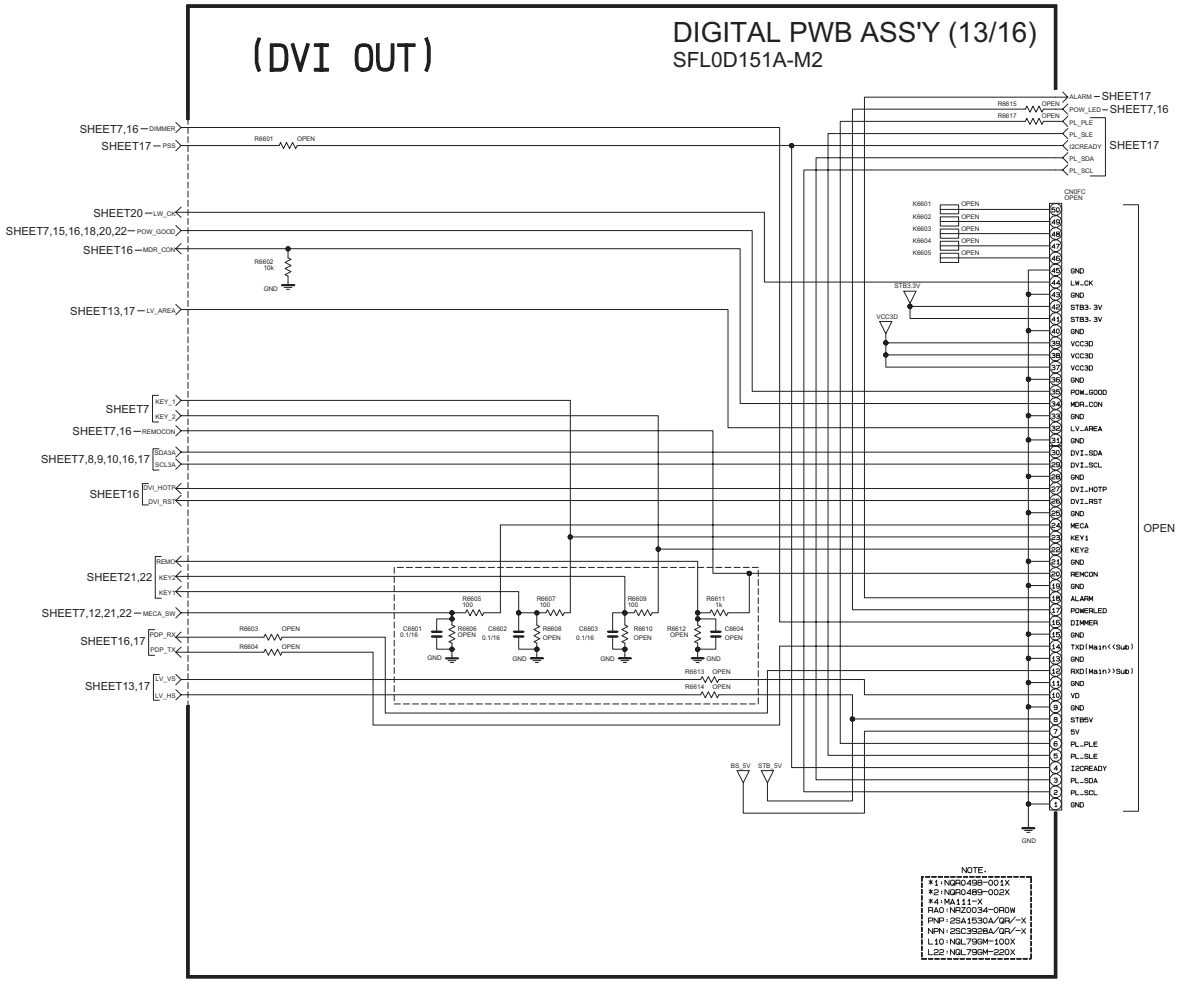
* DIFFERENCE LIST

TYPE	LCD				
	JPN				US
INCH	26	32	37	40	40
ASSY NO.	SFL -0D054A	SFL -0D053A	SFL -0D052A	SFL -0D051A	SFL -0D151A
	OLLC09109 -04	OLLC09109 -03	OLLC09109 -02	OLLC09109	OLLC09109 -05
CN0BS	QGA1501C5 -03W	QGA1501C5 -03W	QGA1501C5 -03W	QGA1501C5 -03W	OPEN
CN110	QGB0603L1 -B0	QGB0603L1 -B0	QGB0603L1 -B0	QGB0603L1 -B0	QGB0603L1 -B0
IC6011	SN74CBQ 16211G-X	SN74CBQ 16211G-X	SN74CBQ 16211G-X	SN74CBQ 16211G-X	SN74CBQ 16211G-X
IC6012	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X
IC6013	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X	SN74CBQ 3306AU-X
D6051	*4	*4	*4	*4	OPEN
D6052	OPEN	OPEN	OPEN	OPEN	*4
D6053	*4	*4	*4	*4	OPEN
K6051	*2	*2	*2	*2	NRSA02J -0R0X
K6052	OPEN	OPEN	*2	*2	*2
K6053	*2	*2	*2	*2	NRSA02J -0R0X
L6051	OPEN	OPEN	OPEN	OPEN	NRSA02J -0R0X
R6055	NRS181J -0R0X	NRS181J -0R0X	NRS181J -0R0X	NRS181J -0R0X	NRS181J -0R0X
R6057	22	22	22	22	22
R6058	22	22	22	22	22
R6059	0	0	0	0	100
R6060	OPEN	OPEN	OPEN	OPEN	0
R6061	OPEN	OPEN	OPEN	OPEN	0
R6064	22	22	22	22	22
R6065	22	22	22	22	22
R6066	22	22	22	22	22
R6068	OPEN	OPEN	OPEN	OPEN	NRZ0080 -0R0X
R6072	0	0	0	0	0
C6031	0.1/16	0.1/16	0.1/16	0.1/16	0.1/16
C6051	0.1	0.1	0.1	0.1	0.1
C6052	OPEN	OPEN	OPEN	OPEN	NCJ41CK-226X-U
C6053	OPEN	OPEN	OPEN	OPEN	10p/50
C6054	0.1/16	0.1/16	0.1/16	0.1/16	0.1/16
C6055	0.1/16	0.1/16	0.1/16	0.1/16	0.1/16

NOTE.
*1:NQR0498-001X
*2:NQR0489-002X
*3:BAV99L-X
*4:MA111-X
*5:NQL0914M-4R7X
*6:NQL092K-4R7X
*7:2SK1228-X
*8:CHP302-160BT
*9:NAF0013-001X
*21:UN2113-X
*22:UN2213-X
L10:NQL79GM-100X
L22:NQL79GM-220X
RA0:NRZ0034-0R0W

c10408001a013_1014_13/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (13/16) SHEET 19



c10408001a012_1014_12/17_0.0

DIGITAL PWB ASS'Y (14/16)

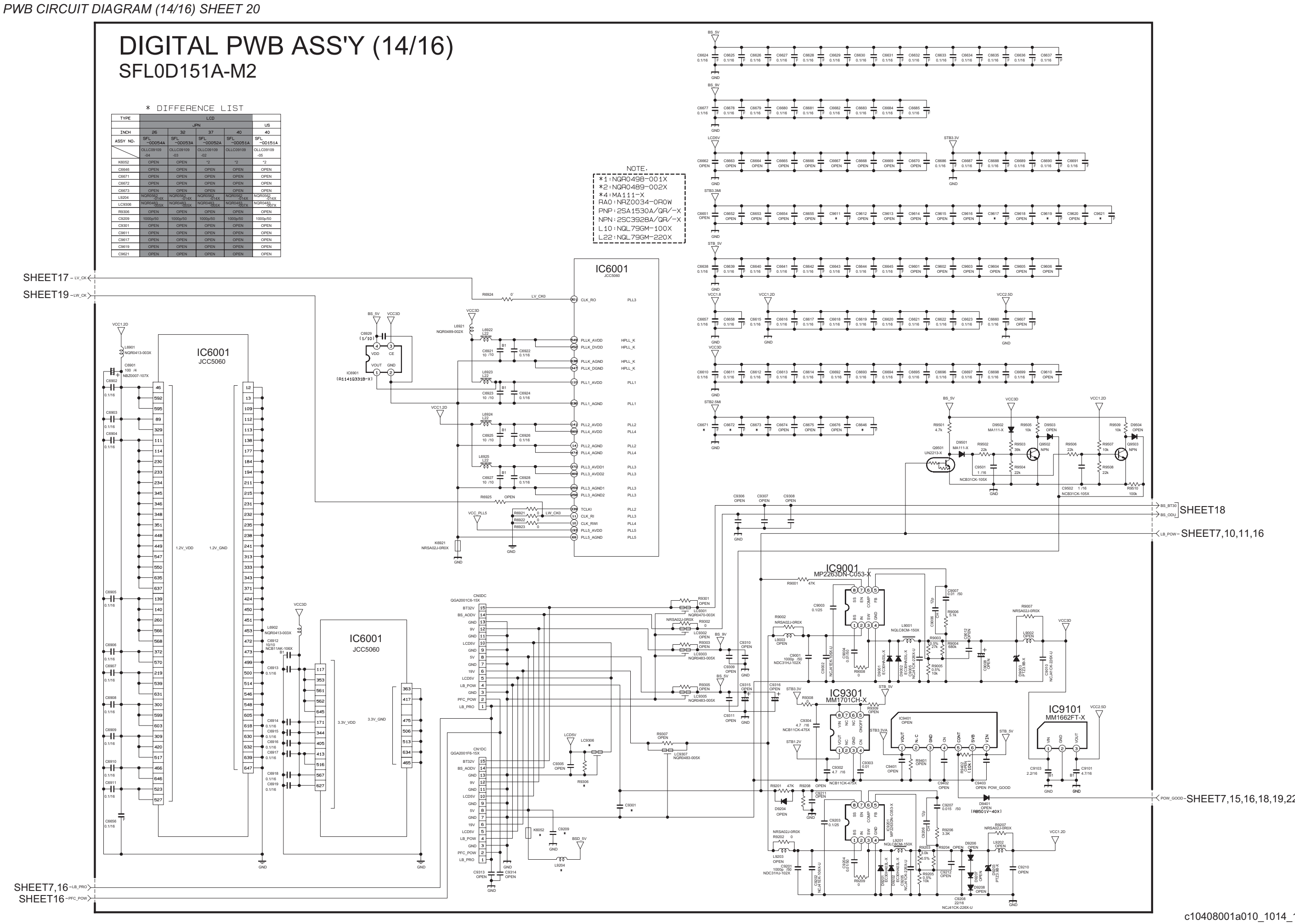
SFL0D151A-M2

* DIFFERENCE LIST

TYPE	LCD				
	JPN				US
INCH	26	32	37	40	40
ASSY NO.	SFL -0D054A	SFL -0D053A	SFL -0D052A	SFL -0D051A	SFL -0D151A
	OLLC09109 -04	OLLC09109 -03	OLLC09109 -02	OLLC09109	OLLC09109 -05
K6052	OPEN	OPEN	*2	*2	*2
C6646	OPEN	OPEN	OPEN	OPEN	OPEN
C6671	OPEN	OPEN	OPEN	OPEN	OPEN
C6672	OPEN	OPEN	OPEN	OPEN	OPEN
C6673	OPEN	OPEN	OPEN	OPEN	OPEN
L9204	NQR0562 -014X	NQR0562 -014X	NQR0562 -014X	NQR0562 -014X	NQR0562 -014X
LC9306	NQR0483 -005X	NQR0483 -005X	NQR0483 -005X	NQR0483 -007X	NQR0483 -007X
R9306	OPEN	OPEN	OPEN	OPEN	OPEN
C9209	1000p/50	1000p/50	1000p/50	1000p/50	1000p/50
C9301	OPEN	OPEN	OPEN	OPEN	OPEN
C9611	OPEN	OPEN	OPEN	OPEN	OPEN
C9617	OPEN	OPEN	OPEN	OPEN	OPEN
C9619	OPEN	OPEN	OPEN	OPEN	OPEN
C9621	OPEN	OPEN	OPEN	OPEN	OPEN

NOTE:

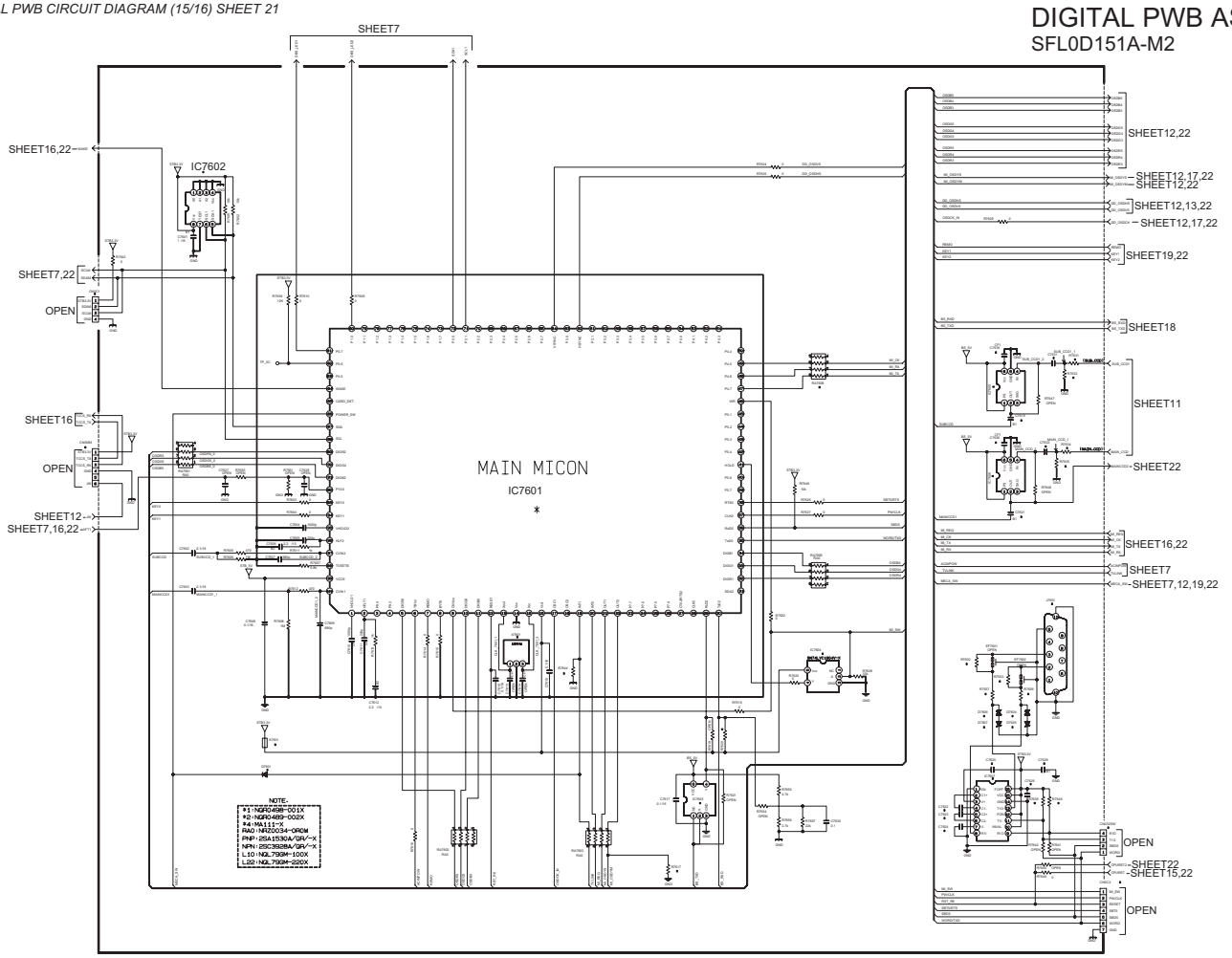
- *1:NQR0498-001X
- *2:NQR0489-002X
- *4:MA111-X
- RA0:NRZ0034-0R0W
- PNP:2SA1530A/QR/-X
- NPN:2SC3928A/QR/-X
- L10:NQL79GM-100X
- L22:NQL79GM-220X



c10408001a010_1014_10/17_0.0

DIGITAL PWB ASS'Y (15/16)

SFL0D151A-M2

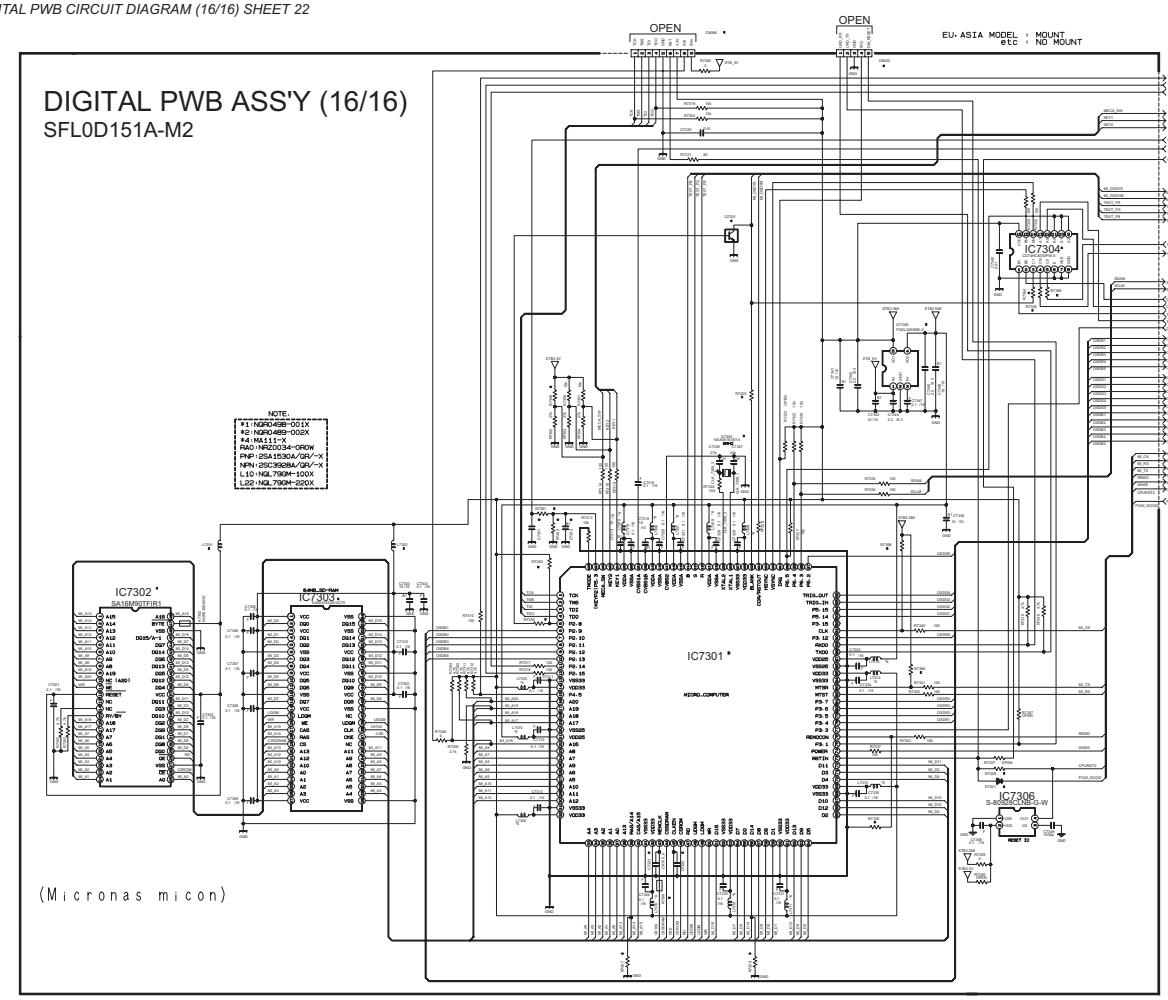


* DIFFERENCE LIST

TYPE		LCD			
INCH	20	26	37	40	46
ANY NO.	SFL *DIGITAL*	SFL *DIGITAL*	SFL *DIGITAL*	SFL *DIGITAL*	SFL *DIGITAL*
C7601	0.01u	0.01u	0.01u	0.01u	0.01u
C7602	0.01u	0.01u	0.01u	0.01u	0.01u
C7603	0.01u	0.01u	0.01u	0.01u	0.01u
C7604	0.01u	0.01u	0.01u	0.01u	0.01u
C7605	0.01u	0.01u	0.01u	0.01u	0.01u
C7606	OPEN	OPEN	OPEN	OPEN	OPEN
C7607	OPEN	OPEN	OPEN	OPEN	OPEN
C7608	OPEN	OPEN	OPEN	OPEN	OPEN
C7609	OPEN	OPEN	OPEN	OPEN	OPEN
C7610	OPEN	OPEN	OPEN	OPEN	OPEN
C7611	OPEN	OPEN	OPEN	OPEN	OPEN
C7612	OPEN	OPEN	OPEN	OPEN	OPEN
C7613	OPEN	OPEN	OPEN	OPEN	OPEN
C7614	OPEN	OPEN	OPEN	OPEN	OPEN
C7615	OPEN	OPEN	OPEN	OPEN	OPEN
C7616	OPEN	OPEN	OPEN	OPEN	OPEN
C7617	OPEN	OPEN	OPEN	OPEN	OPEN
C7618	OPEN	OPEN	OPEN	OPEN	OPEN
C7619	OPEN	OPEN	OPEN	OPEN	OPEN
C7620	OPEN	OPEN	OPEN	OPEN	OPEN
C7621	OPEN	OPEN	OPEN	OPEN	OPEN
C7622	OPEN	OPEN	OPEN	OPEN	OPEN
C7623	OPEN	OPEN	OPEN	OPEN	OPEN
C7624	OPEN	OPEN	OPEN	OPEN	OPEN
C7625	OPEN	OPEN	OPEN	OPEN	OPEN
C7626	OPEN	OPEN	OPEN	OPEN	OPEN
C7627	OPEN	OPEN	OPEN	OPEN	OPEN
C7628	OPEN	OPEN	OPEN	OPEN	OPEN
C7629	OPEN	OPEN	OPEN	OPEN	OPEN
C7630	OPEN	OPEN	OPEN	OPEN	OPEN
C7631	OPEN	OPEN	OPEN	OPEN	OPEN
C7632	OPEN	OPEN	OPEN	OPEN	OPEN
C7633	OPEN	OPEN	OPEN	OPEN	OPEN
C7634	OPEN	OPEN	OPEN	OPEN	OPEN
C7635	OPEN	OPEN	OPEN	OPEN	OPEN
C7636	OPEN	OPEN	OPEN	OPEN	OPEN
C7637	OPEN	OPEN	OPEN	OPEN	OPEN
C7638	OPEN	OPEN	OPEN	OPEN	OPEN
C7639	OPEN	OPEN	OPEN	OPEN	OPEN
C7640	OPEN	OPEN	OPEN	OPEN	OPEN
C7641	OPEN	OPEN	OPEN	OPEN	OPEN
C7642	OPEN	OPEN	OPEN	OPEN	OPEN
C7643	OPEN	OPEN	OPEN	OPEN	OPEN
C7644	OPEN	OPEN	OPEN	OPEN	OPEN
C7645	OPEN	OPEN	OPEN	OPEN	OPEN
C7646	OPEN	OPEN	OPEN	OPEN	OPEN
C7647	OPEN	OPEN	OPEN	OPEN	OPEN
C7648	OPEN	OPEN	OPEN	OPEN	OPEN
C7649	OPEN	OPEN	OPEN	OPEN	OPEN
C7650	OPEN	OPEN	OPEN	OPEN	OPEN
C7651	OPEN	OPEN	OPEN	OPEN	OPEN
C7652	OPEN	OPEN	OPEN	OPEN	OPEN
C7653	OPEN	OPEN	OPEN	OPEN	OPEN
C7654	OPEN	OPEN	OPEN	OPEN	OPEN
C7655	OPEN	OPEN	OPEN	OPEN	OPEN
C7656	OPEN	OPEN	OPEN	OPEN	OPEN
C7657	OPEN	OPEN	OPEN	OPEN	OPEN
C7658	OPEN	OPEN	OPEN	OPEN	OPEN
C7659	OPEN	OPEN	OPEN	OPEN	OPEN
C7660	OPEN	OPEN	OPEN	OPEN	OPEN
C7661	OPEN	OPEN	OPEN	OPEN	OPEN
C7662	OPEN	OPEN	OPEN	OPEN	OPEN
C7663	OPEN	OPEN	OPEN	OPEN	OPEN
C7664	OPEN	OPEN	OPEN	OPEN	OPEN
C7665	OPEN	OPEN	OPEN	OPEN	OPEN
C7666	OPEN	OPEN	OPEN	OPEN	OPEN
C7667	OPEN	OPEN	OPEN	OPEN	OPEN
C7668	OPEN	OPEN	OPEN	OPEN	OPEN
C7669	OPEN	OPEN	OPEN	OPEN	OPEN
C7670	OPEN	OPEN	OPEN	OPEN	OPEN
C7671	OPEN	OPEN	OPEN	OPEN	OPEN
C7672	OPEN	OPEN	OPEN	OPEN	OPEN
C7673	OPEN	OPEN	OPEN	OPEN	OPEN
C7674	OPEN	OPEN	OPEN	OPEN	OPEN
C7675	OPEN	OPEN	OPEN	OPEN	OPEN
C7676	OPEN	OPEN	OPEN	OPEN	OPEN
C7677	OPEN	OPEN	OPEN	OPEN	OPEN
C7678	OPEN	OPEN	OPEN	OPEN	OPEN
C7679	OPEN	OPEN	OPEN	OPEN	OPEN
C7680	OPEN	OPEN	OPEN	OPEN	OPEN
C7681	OPEN	OPEN	OPEN	OPEN	OPEN
C7682	OPEN	OPEN	OPEN	OPEN	OPEN
C7683	OPEN	OPEN	OPEN	OPEN	OPEN
C7684	OPEN	OPEN	OPEN	OPEN	OPEN
C7685	OPEN	OPEN	OPEN	OPEN	OPEN
C7686	OPEN	OPEN	OPEN	OPEN	OPEN
C7687	OPEN	OPEN	OPEN	OPEN	OPEN
C7688	OPEN	OPEN	OPEN	OPEN	OPEN
C7689	OPEN	OPEN	OPEN	OPEN	OPEN
C7690	OPEN	OPEN	OPEN	OPEN	OPEN
C7691	OPEN	OPEN	OPEN	OPEN	OPEN
C7692	OPEN	OPEN	OPEN	OPEN	OPEN
C7693	OPEN	OPEN	OPEN	OPEN	OPEN
C7694	OPEN	OPEN	OPEN	OPEN	OPEN
C7695	OPEN	OPEN	OPEN	OPEN	OPEN
C7696	OPEN	OPEN	OPEN	OPEN	OPEN
C7697	OPEN	OPEN	OPEN	OPEN	OPEN
C7698	OPEN	OPEN	OPEN	OPEN	OPEN
C7699	OPEN	OPEN	OPEN	OPEN	OPEN
C7700	OPEN	OPEN	OPEN	OPEN	OPEN
C7701	OPEN	OPEN	OPEN	OPEN	OPEN
C7702	OPEN	OPEN	OPEN	OPEN	OPEN
C7703	OPEN	OPEN	OPEN	OPEN	OPEN
C7704	OPEN	OPEN	OPEN	OPEN	OPEN
C7705	OPEN	OPEN	OPEN	OPEN	OPEN
C7706	OPEN	OPEN	OPEN	OPEN	OPEN
C7707	OPEN	OPEN	OPEN	OPEN	OPEN
C7708	OPEN	OPEN	OPEN	OPEN	OPEN
C7709	OPEN	OPEN	OPEN	OPEN	OPEN
C7710	OPEN	OPEN	OPEN	OPEN	OPEN
C7711	OPEN	OPEN	OPEN	OPEN	OPEN
C7712	OPEN	OPEN	OPEN	OPEN	OPEN
C7713	OPEN	OPEN	OPEN	OPEN	OPEN
C7714	OPEN	OPEN	OPEN	OPEN	OPEN
C7715	OPEN	OPEN	OPEN	OPEN	OPEN
C7716	OPEN	OPEN	OPEN	OPEN	OPEN
C7717	OPEN	OPEN	OPEN	OPEN	OPEN
C7718	OPEN	OPEN	OPEN	OPEN	OPEN
C7719	OPEN	OPEN	OPEN	OPEN	OPEN
C7720	OPEN	OPEN	OPEN	OPEN	OPEN
C7721	OPEN	OPEN	OPEN	OPEN	OPEN
C7722	OPEN	OPEN	OPEN	OPEN	OPEN
C7723	OPEN	OPEN	OPEN	OPEN	OPEN
C7724	OPEN	OPEN	OPEN	OPEN	OPEN
C7725	OPEN	OPEN	OPEN	OPEN	OPEN
C7726	OPEN	OPEN	OPEN	OPEN	OPEN
C7727	OPEN	OPEN	OPEN	OPEN	OPEN
C7728	OPEN	OPEN	OPEN	OPEN	OPEN
C7729	OPEN	OPEN	OPEN	OPEN	OPEN
C7730	OPEN	OPEN	OPEN	OPEN	OPEN
C7731	OPEN	OPEN	OPEN	OPEN	OPEN
C7732	OPEN	OPEN	OPEN	OPEN	OPEN
C7733	OPEN	OPEN	OPEN	OPEN	OPEN
C7734	OPEN	OPEN	OPEN	OPEN	OPEN
C7735	OPEN	OPEN	OPEN	OPEN	OPEN
C7736	OPEN	OPEN	OPEN	OPEN	OPEN
C7737	OPEN	OPEN	OPEN	OPEN	OPEN
C7738	OPEN	OPEN	OPEN	OPEN	OPEN
C7739	OPEN	OPEN	OPEN	OPEN	OPEN
C7740	OPEN	OPEN	OPEN	OPEN	OPEN
C7741	OPEN	OPEN	OPEN	OPEN	OPEN
C7742	OPEN	OPEN	OPEN	OPEN	OPEN
C7743	OPEN	OPEN	OPEN	OPEN	OPEN
C7744	OPEN	OPEN	OPEN	OPEN	OPEN
C7745	OPEN	OPEN	OPEN	OPEN	OPEN
C7746	OPEN	OPEN	OPEN	OPEN	OPEN
C7747	OPEN	OPEN	OPEN	OPEN	OPEN
C7748	OPEN	OPEN	OPEN	OPEN	OPEN
C7749	OPEN	OPEN	OPEN	OPEN	OPEN
C7750	OPEN	OPEN	OPEN	OPEN	OPEN
C7751	OPEN	OPEN	OPEN	OPEN	OPEN
C7752	OPEN	OPEN	OPEN	OPEN	OPEN
C7753	OPEN	OPEN	OPEN	OPEN	OPEN
C7754	OPEN	OPEN	OPEN	OPEN	OPEN
C7755	OPEN	OPEN	OPEN	OPEN	OPEN
C7756	OPEN	OPEN	OPEN	OPEN	OPEN
C7757	OPEN	OPEN	OPEN	OPEN	OPEN
C7758	OPEN	OPEN	OPEN	OPEN	OPEN
C7759	OPEN	OPEN	OPEN	OPEN	OPEN
C7760	OPEN	OPEN	OPEN	OPEN	OPEN
C7761	OPEN	OPEN	OPEN	OPEN	OPEN
C7762	OPEN	OPEN	OPEN	OPEN	OPEN
C7763	OPEN	OPEN	OPEN	OPEN	OPEN
C7764	OPEN	OPEN	OPEN	OPEN	OPEN
C7765	OPEN	OPEN	OPEN	OPEN	OPEN
C7766	OPEN	OPEN	OPEN	OPEN	OPEN
C7767	OPEN	OPEN	OPEN	OPEN	OPEN
C7768	OPEN	OPEN	OPEN	OPEN	OPEN
C7769	OPEN	OPEN	OPEN	OPEN	OPEN
C7770	OPEN	OPEN	OPEN	OPEN	OPEN
C7771	OPEN	OPEN	OPEN	OPEN	OPEN
C7772	OPEN	OPEN	OPEN	OPEN	OPEN
C7773	OPEN	OPEN	OPEN	OPEN	OPEN
C7774	OPEN	OPEN	OPEN	OPEN	OPEN
C7775	OPEN	OPEN	OPEN	OPEN	OPEN
C7776	OPEN	OPEN	OPEN	OPEN	OPEN
C7777	OPEN	OPEN	OPEN	OPEN	OPEN
C7778	OPEN	OPEN	OPEN	OPEN	OPEN
C7779	OPEN	OPEN	OPEN	OPEN	OPEN
C7780	OPEN	OPEN	OPEN	OPEN	OPEN
C7781	OPEN	OPEN	OPEN	OPEN	OPEN
C7782	OPEN	OPEN	OPEN	OPEN	OPEN
C7783	OPEN	OPEN	OPEN	OPEN	OPEN
C7784	OPEN	OPEN	OPEN	OPEN	OPEN
C7785	OPEN	OPEN	OPEN	OPEN	OPEN
C7786	OPEN	OPEN	OPEN	OPEN	OPEN
C7787	OPEN	OPEN	OPEN	OPEN	OPEN
C7788	OPEN	OPEN	OPEN	OPEN	OPEN
C7789	OPEN	OPEN	OPEN	OPEN	OPEN
C7790	OPEN	OPEN	OPEN	OPEN	OPEN
C7791	OPEN	OPEN	OPEN	OPEN	OPEN
C7792	OPEN	OPEN	OPEN	OPEN	OPEN
C7793	OPEN	OPEN	OPEN	OPEN	OPEN
C7794	OPEN	OPEN	OPEN	OPEN	OPEN
C7795	OPEN	OPEN	OPEN	OPEN	OPEN
C7796	OPEN	OPEN	OPEN	OPEN	OPEN
C7797	OPEN	OPEN	OPEN	OPEN	OPEN
C7798	OPEN	OPEN	OPEN	OPEN	OPEN
C7799	OPEN	OPEN	OPEN	OPEN	OPEN
C7800	OPEN	OPEN	OPEN	OPEN	OPEN
C7801	OPEN	OPEN	OPEN	OPEN	OPEN
C7802	OPEN	OPEN	OPEN	OPEN	OPEN
C7803	OPEN	OPEN	OPEN	OPEN	OPEN
C7804	OPEN	OPEN	OPEN	OPEN	OPEN
C7805	OPEN	OPEN	OPEN	OPEN	OPEN
C7806	OPEN	OPEN	OPEN	OPEN	OPEN
C7807	OPEN	OPEN	OPEN	OPEN	OPEN
C7808	OPEN	OPEN	OPEN	OPEN	OPEN
C7809	OPEN	OPEN	OPEN	OPEN	OPEN
C7810	OPEN	OPEN	OPEN	OPEN	OPEN
C7811	OPEN	OPEN	OPEN	OPEN	OPEN
C7812	OPEN	OPEN	OPEN	OPEN	OPEN
C7813	OPEN	OPEN	OPEN	OPEN	OPEN
C7814	OPEN	OPEN	OPEN	OPEN	OPEN
C7815	OPEN	OPEN	OPEN	OPEN	OPEN
C7816	OPEN	OPEN	OPEN	OPEN	OPEN
C7817	OPEN	OPEN	OPEN	OPEN	OPEN
C7818	OPEN	OPEN	OPEN	OPEN	OPEN
C7819	OPEN	OPEN	OPEN	OPEN	OPEN
C7820	OPEN	OPEN	OPEN	OPEN	OPEN
C7821	OPEN	OPEN	OPEN	OPEN	OPEN
C7822	OPEN	OPEN	OPEN	OPEN	OPEN
C7823	OPEN	OPEN	OPEN	OPEN	OPEN
C7824	OPEN	OPEN	OPEN	OPEN	OPEN
C7825	OPEN	OPEN	OPEN	OPEN	OPEN
C7826	OPEN	OPEN	OPEN	OPEN	OPEN
C7827	OPEN	OPEN	OPEN	OPEN	OPEN
C7828	OPEN	OPEN	OPEN	OPEN	OPEN
C7829	OPEN	OPEN	OPEN	OPEN	OPEN
C7830	OPEN	OPEN	OPEN	OPEN	OPEN
C7831	OPEN	OPEN	OPEN	OPEN	OPEN
C7832	OPEN	OPEN	OPEN	OPEN	OPEN
C7833	OPEN	OPEN	OPEN	OPEN	OPEN
C7834	OPEN	OPEN	OPEN	OPEN	OPEN
C7835	OPEN	OPEN	OPEN	OPEN	OPEN
C7836	OPEN	OPEN	OPEN	OPEN	OPEN
C7837	OPEN	OPEN	OPEN	OPEN	OPEN
C7838	OPEN	OPEN	OPEN	OPEN	OPEN
C7839	OPEN	OPEN	OPEN	OPEN	OPEN
C7840	OPEN	OPEN	OPEN	OPEN	OPEN
C7841	OPEN	OPEN	OPEN	OPEN	OPEN
C7842	OPEN	OPEN	OPEN	OPEN	OPEN
C7843	OPEN	OPEN	OPEN	OPEN	OPEN
C7844	OPEN	OPEN	OPEN	OPEN	OPEN
C7845	OPEN	OPEN	OPEN	OPEN	OPEN
C7846	OPEN	OPEN	OPEN	OPEN	OPEN
C7847	OPEN	OPEN	OPEN	OPEN	OPEN
C7848	OPEN	OPEN	OPEN	OPEN	OPEN
C7849	OPEN	OPEN	OPEN	OPEN	OPEN
C7850	OPEN	OPEN	OPEN	OPEN	OPEN
C7851	OPEN	OPEN	OPEN	OPEN	OPEN
C7852	OPEN	OPEN	OPEN	OPEN	OPEN
C7853	OPEN	OPEN	OPEN	OPEN	OPEN
C7854	OPEN	OPEN	OPEN	OPEN	OPEN
C7855	OPEN	OPEN	OPEN	OPEN	OPEN
C7856	OPEN	OPEN	OPEN	OPEN	OPEN
C7857	OPEN	OPEN	OPEN	OPEN	OPEN
C7858	OPEN	OPEN	OPEN	OPEN	OPEN
C7859	OPEN	OPEN	OPEN	OPEN	OPEN
C7860	OPEN	OPEN	OPEN	OPEN	OPEN
C7861	OPEN	OPEN	OPEN	OPEN	OPEN
C7862	OPEN	OPEN	OPEN	OPEN	OPEN
C7863	OPEN	OPEN	OPEN	OPEN	OPEN
C7864	OPEN	OPEN	OPEN	OPEN	OPEN
C7865	OPEN	OPEN	OPEN	OPEN	OPEN
C7866	OPEN	OPEN	OPEN	OPEN	OPEN
C7867	OPEN	OPEN	OPEN	OPEN	OPEN
C7868	OPEN	OPEN	OPEN	OPEN	OPEN
C7869	OPEN	OPEN	OPEN	OPEN	OPEN
C7870	OPEN	OPEN	OPEN	OPEN	OPEN
C7871	OPEN	OPEN	OPEN	OPEN	OPEN
C7872	OPEN	OPEN	OPEN	OPEN	OPEN
C7873	OPEN	OPEN	OPEN	OPEN	OPEN
C7874	OPEN	OPEN	OPEN	OPEN	OPEN
C7875	OPEN	OPEN	OPEN	OPEN	OPEN
C7876	OPEN	OPEN	OPEN	OPEN	OPEN
C7877	OPEN	OPEN	OPEN	OPEN	OPEN
C7878	OPEN	OPEN	OPEN	OPEN	OPEN
C7879	OPEN	OPEN	OPEN	OPEN	OPEN
C7880	OPEN	OPEN	OPEN	OPEN	OPEN
C7881	OPEN	OPEN	OPEN	OPEN	OPEN
C7882	OPEN	OPEN	OPEN	OPEN	OPEN
C7883	OPEN	OPEN	OPEN	OPEN	OPEN
C7884	OPEN	OPEN	OPEN	OPEN	OPEN
C7885	OPEN	OPEN	OPEN	OPEN	OPEN
C7886	OPEN	OPEN	OPEN	OPEN	OPEN
C7887	OPEN	OPEN	OPEN	OPEN	OPEN
C7888	OPEN	OPEN	OPEN	OPEN	OPEN
C7889	OPEN	OPEN	OPEN	OPEN	OPEN
C7890	OPEN	OPEN	OPEN	OPEN	OPEN
C7891	OPEN	OPEN	OPEN	OPEN	OPEN
C7892	OPEN	OPEN	OPEN	OPEN	OPEN
C7893	OPEN	OPEN	OPEN	OPEN	OPEN
C7894	OPEN	OPEN	OPEN	OPEN	OPEN
C7895	OPEN	OPEN	OPEN	OPEN	OPEN
C7896	OPEN	OPEN	OPEN	OPEN	OPEN
C7897	OPEN	OPEN	OPEN	OPEN	OPEN
C7898	OPEN	OPEN	OPEN	OPEN	OPEN
C7899	OPEN	OPEN	OPEN	OPEN	OPEN
C7900	OPEN	OPEN	OPEN	OPEN	OPEN
C7901	OPEN	OPEN	OPEN	OPEN	OPEN
C7902	OPEN	OPEN	OPEN	OPEN	OPEN
C7903	OPEN	OPEN	OPEN	OPEN	OPEN
C7904	OPEN	OPEN	OPEN	OPEN	OPEN
C7905	OPEN	OPEN	OPEN	OPEN	OPEN
C7906	OPEN	OPEN	OPEN	OPEN	OPEN
C7907	OPEN	OPEN	OPEN	OPEN	OPEN
C7908	OPEN	OPEN	OPEN	OPEN	OPEN
C7909	OPEN	OPEN	OPEN	OPEN	OPEN
C7910	OPEN	OPEN	OPEN	OPEN	OPEN
C7911	OPEN	OPEN	OPEN	OPEN	OPEN
C7912	OPEN	OPEN	OPEN	OPEN	OPEN
C7913	OPEN	OPEN	OPEN	OPEN	OPEN
C7914	OPEN	OPEN	OPEN	OPEN	OPEN
C7915	OPEN	OPEN	OPEN	OPEN	OPEN
C7916	OPEN	OPEN	OPEN	OPEN	OPEN
C7917	OPEN	OPEN	OPEN	OPEN	OPEN
C7918	OPEN	OPEN	OPEN	OPEN	OPEN
C7919	OPEN	OPEN	OPEN	OPEN	OPEN
C7920	OPEN	OPEN	OPEN	OPEN	OPEN
C7921	OPEN	OPEN	OPEN	OPEN	OPEN
C7922	OPEN	OPEN	OPEN	OPEN	OPEN
C7923	OPEN	OPEN	OPEN	OPEN	OPEN
C7924	OPEN	OPEN	OPEN	OPEN	OPEN
C7925	OPEN	OPEN	OPEN	OPEN	OPEN
C7926	OPEN	OPEN	OPEN	OPEN	OPEN
C7927	OPEN	OPEN	OPEN	OPEN	OPEN
C7928	OPEN	OPEN	OPEN	OPEN	OPEN
C7929	OPEN	OPEN	OPEN	OPEN	OPEN
C7930	OPEN	OPEN	OPEN	OPEN	OPEN
C7931	OPEN	OPEN	OPEN	OPEN	OPEN
C7932	OPEN	OPEN	OPEN	OPEN	OPEN
C7933	OPEN	OPEN	OPEN	OPEN	OPEN
C7934	OPEN	OPEN	OPEN	OPEN	OPEN
C7935	OPEN	OPEN	OPEN	OPEN	OPEN
C7936	OPEN	OPEN	OPEN	OPEN	OPEN
C7937	OPEN	OPEN	OPEN	OPEN	OPEN
C7938	OPEN	OPEN	OPEN	OPEN	OPEN
C7939	OPEN	OPEN	OPEN	OPEN	OPEN
C7940	OPEN	OPEN	OPEN	OPEN	OPEN
C7941	OPEN	OPEN	OPEN	OPEN	OPEN
C7942	OPEN	OPEN	OPEN	OPEN	OPEN
C7943	OPEN	OPEN	OPEN	OPEN	OPEN
C7944	OPEN	OPEN	OPEN	OPEN	OPEN
C7945	OPEN	OPEN	OPEN	OPEN	OPEN
C7946	OPEN	OPEN	OPEN	OPEN	OPEN
C7947	OPEN	OPEN	OPEN	OPEN	OPEN
C7948	OPEN	OPEN	OPEN	OPEN	OPEN
C7949	OPEN	OPEN	OPEN	OPEN	OPEN
C7950	OPEN	OPEN	OPEN	OPEN	OPEN
C7951	OPEN	OPEN	OPEN	OPEN	OPEN
C7952	OPEN	OPEN	OPEN	OPEN	OPEN
C7953	OPEN	OPEN	OPEN	OPEN	OPEN
C7954	OPEN	OPEN	OPEN	OPEN	OPEN
C7955	OPEN	OPEN	OPEN	OPEN	OPEN
C7956	OPEN	OPEN	OPEN	OPEN	OPEN
C7957	OPEN	OPEN	OPEN	OPEN	OPEN
C7958	OPEN	OPEN	OPEN	OPEN	OPEN
C7959	OPEN	OPEN	OPEN	OPEN	OPEN
C7960	OPEN	OPEN	OPEN	OPEN	OPEN
C7961	OPEN	OPEN	OPEN	OPEN	OPEN
C7962	OPEN	OPEN	OPEN	OPEN	OPEN
C7963	OPEN	OPEN	OPEN	OPEN	OPEN
C7964	OPEN	OPEN	OPEN	OPEN	OPEN
C7965	OPEN	OPEN	OPEN	OPEN	OPEN
C7966	OPEN	OPEN	OPEN	OPEN	OPEN
C7967	OPEN	OPEN	OPEN	OPEN	OPEN
C7968	OPEN	OPEN	OPEN	OPEN	OPEN
C7969	OPEN	OPEN	OPEN	OPEN	OPEN
C7970	OPEN	OPEN	OPEN	OPEN	OPEN
C7971	OPEN	OPEN	OPEN	OPEN	OPEN
C7972	OPEN	OPEN	OPEN	OPEN	OPEN
C7973	OPEN	OPEN	OPEN	OPEN	OPEN
C7974	OPEN	OPEN	OPEN	OPEN	OPEN
C7975	OPEN	OPEN	OPEN	OPEN	OPEN
C7976	OPEN	OPEN	OPEN	OPEN	OPEN
C7977	OPEN	OPEN	OPEN	OPEN	OPEN
C7978	OPEN	OPEN	OPEN	OPEN	OPEN
C7979	OPEN	OPEN	OPEN	OPEN	OPEN
C7980	OPEN	OPEN	OPEN	OPEN	OPEN
C7981	OPEN	OPEN	OPEN	OPEN	OPEN
C7982	OPEN	OPEN	OPEN	OPEN	OPEN
C7983	OPEN	OPEN	OPEN	OPEN	OPEN
C7984	OPEN	OPEN	OPEN	OPEN	OPEN
C7985	OPEN	OPEN	OPEN	OPEN	OPEN
C7986	OPEN	OPEN	OPEN	OPEN	OPEN
C7987	OPEN	OPEN	OPEN	OPEN	OPEN
C7988	OPEN	OPEN	OPEN	OPEN	OPEN
C7989	OPEN	OPEN	OPEN	OPEN	OPEN
C7990	OPEN	OPEN	OPEN	OPEN	OPEN
C7991	OPEN	OPEN	OPEN	OPEN	OPEN
C7992	OPEN	OPEN	OPEN	OPEN	OPEN
C7993	OPEN	OPEN	OPEN	OPEN	OPEN
C7994	OPEN	OPEN	OPEN	OPEN	OPEN
C7995	OPEN	OPEN	OPEN	OPEN	OPEN
C7996	OPEN	OPEN	OPEN	OPEN	OPEN
C7997	OPEN	OPEN	OPEN	OPEN	OPEN
C7998	OPEN	OPEN	OPEN	OPEN	OPEN
C7999	OPEN	OPEN	OPEN	OPEN	OPEN
C8000	OPEN	OPEN	OPEN	OPEN	OPEN

c10408001a006_1014_6/17_0.0

DIGITAL PWB CIRCUIT DIAGRAM (16/16) SHEET 22

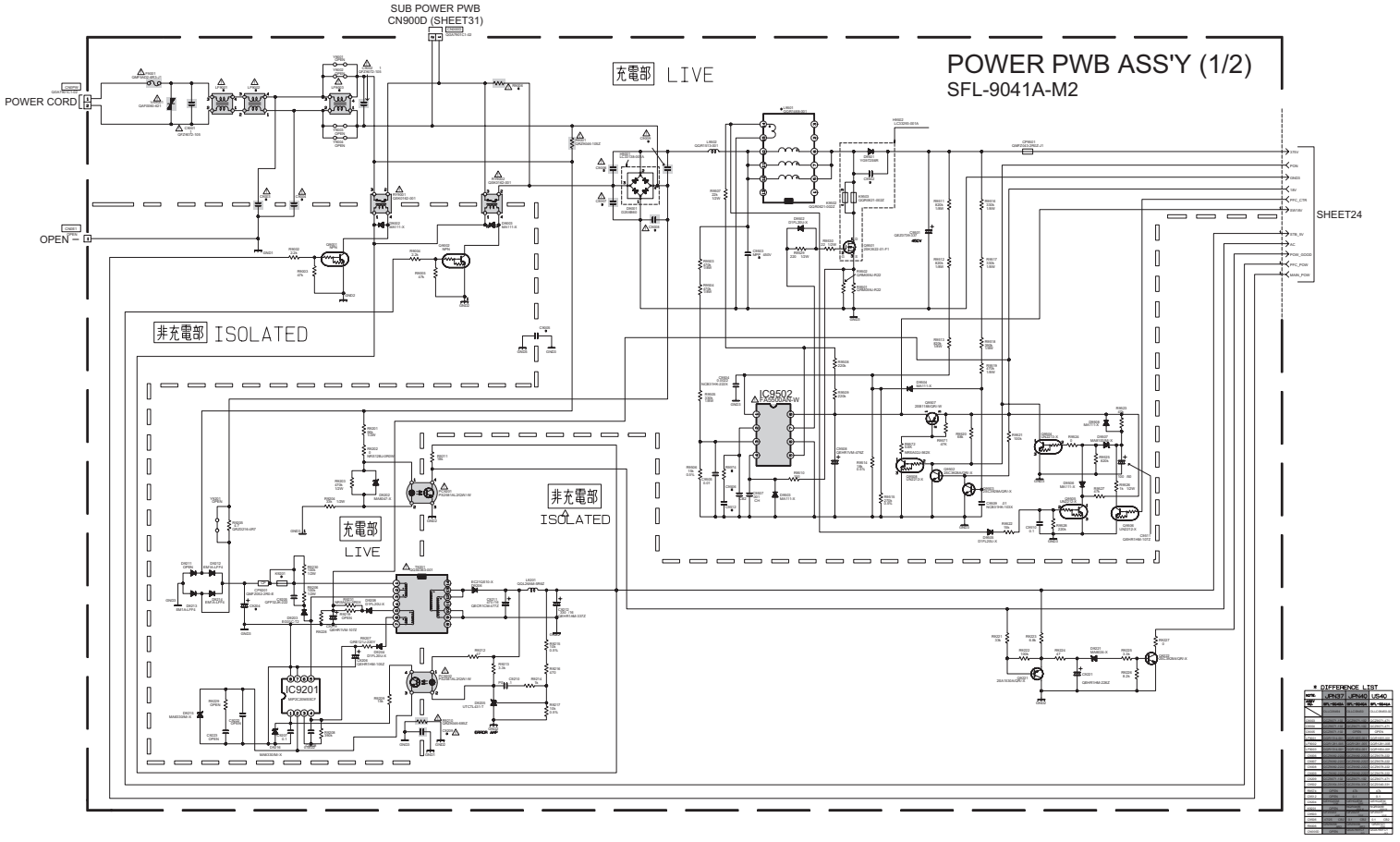


SHEET7
SHEET16,21
SHEET7
SHEET7,12,19,21
SHEET19,21
SHEET7,16,21
SHEET21
SHEET15,21
SHEET12,17,21
SHEET12,21
SHEET7
SHEET11
SHEET7,21
SHEET12,13,21
SHEET12
SHEET12,17,21
SHEET12
SHEET12,21
SHEET12
SHEET12,21
SHEET12
SHEET12,21
SHEET16,21
SHEET19,21
SHEET16,21
SHEET21
SHEET7,15,16,18,19,20

* DIFFERENCE LIST

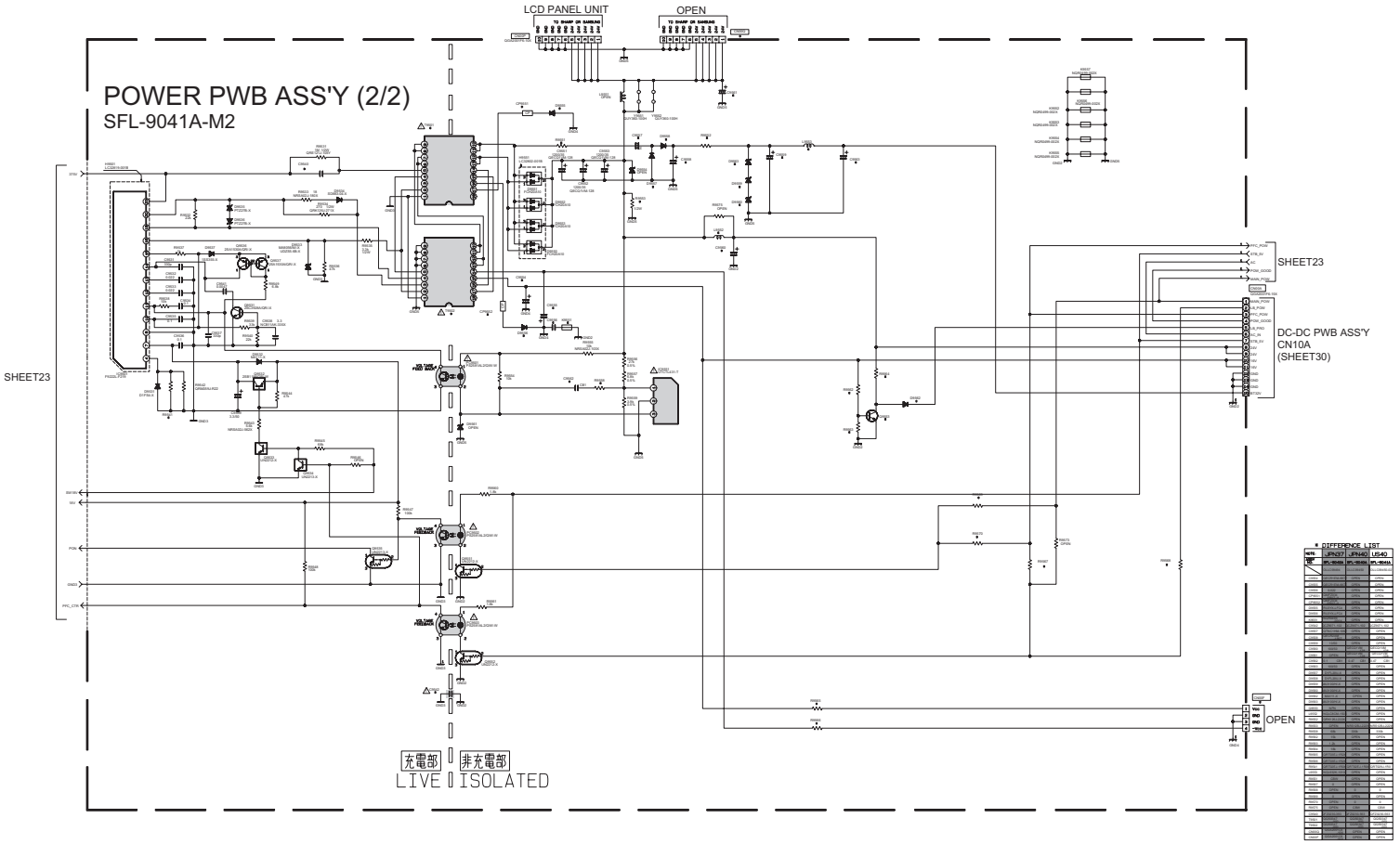
c10408001a007_1014_7/17_0.0

POWER POWER PWB CIRCUIT DIAGRAM (1/2) SHEET 23



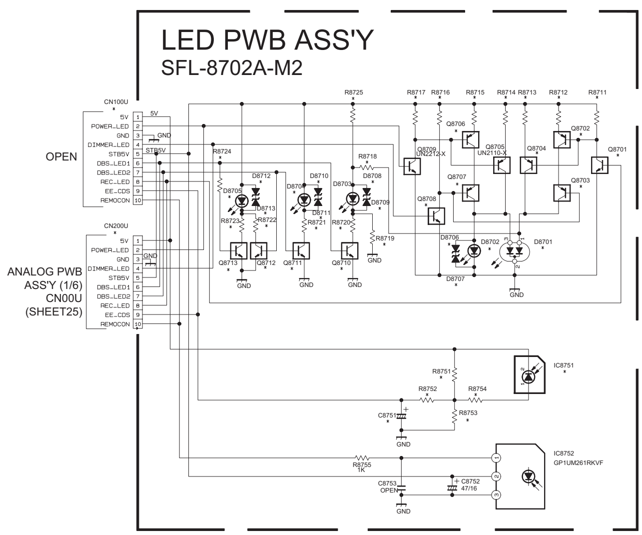
c10414001a001_1017_1/2_0.0

POWER PWB CIRCUIT DIAGRAM (2/2) SHEET 24

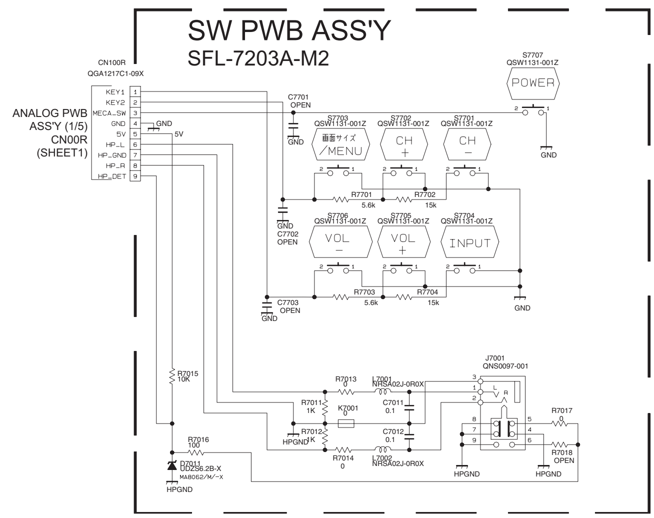


c10414001a002_1017_2/2_0.0

LED PWB CIRCUIT DIAGRAM SHEET 25



SW PWB CIRCUIT DIAGRAM SHEET 26



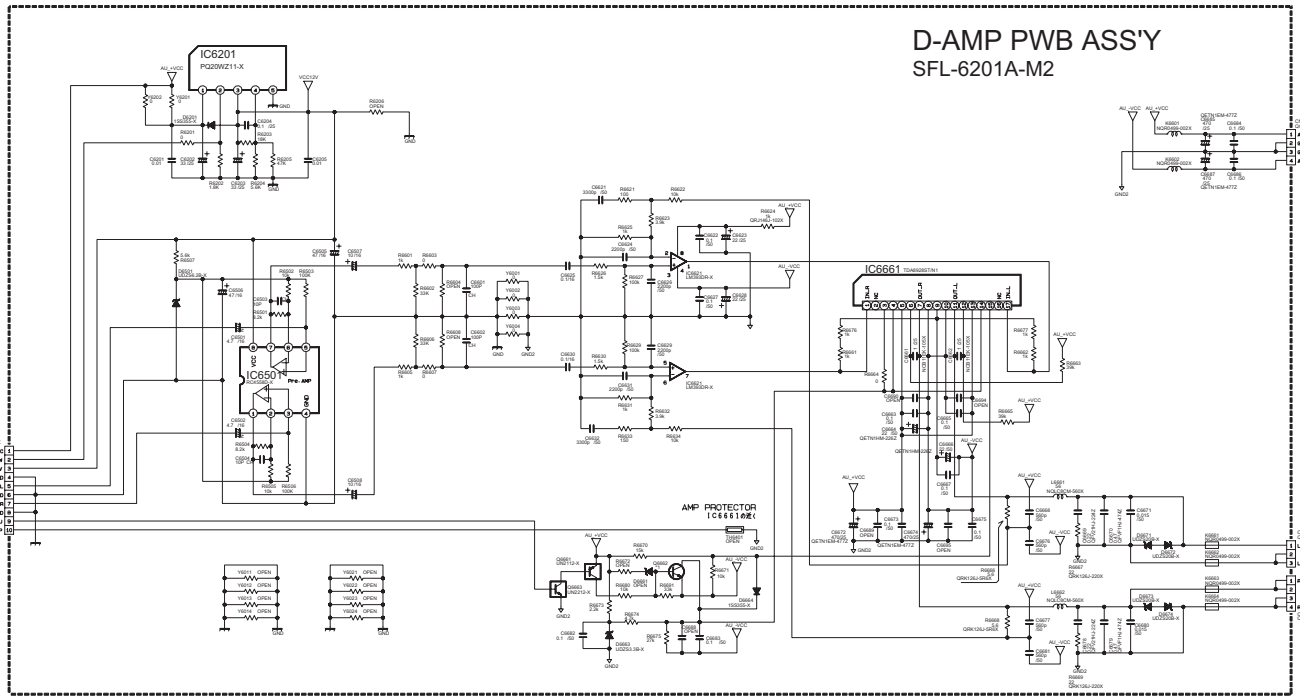
*DIFFERENCE LIST

NOTE	JPN26/32 JPN40	JPN37	US40
ASSY NO.	SFL-8701A SFL-8704A	SFL-8705A	SFL-8702A
	OLLC09103 (etc)	OLLC09103 -05	OLLC09103 -02
D8701	SML72420C-T	SML72420C-T	OPEN
D8702	OPEN	OPEN	SEL5E20C-T
D8703	SEL5920A-T	SEL5920A-T	SEL5920A-T
D8704	SEL5420E-T	SEL5420E-T	OPEN
D8705	OPEN	OPEN	SELU5E20C-T
D8706	OPEN	OPEN	MA8068-X
D8707	OPEN	OPEN	MA8068-X
D8708	OPEN	OPEN	OPEN
D8709	OPEN	OPEN	OPEN
D8710	OPEN	OPEN	OPEN
D8711	OPEN	OPEN	OPEN
D8712	OPEN	OPEN	MA8068-X
D8713	OPEN	OPEN	MA8068-X
Q8701	UN2212-X	UN2212-X	UN2212-X
Q8702	OPEN	OPEN	UN2110-X
Q8703	OPEN	OPEN	UN2110-X
Q8704	UN2110-X	UN2110-X	UN2110-X
Q8706	OPEN	OPEN	UN2110-X
Q8707	OPEN	OPEN	UN2110-X
Q8708	OPEN	OPEN	UN2212-X
Q8710	UN2212-X	UN2212-X	OPEN
Q8711	UN2212-X	UN2212-X	OPEN
Q8712	OPEN	OPEN	UN2212-X
Q8713	OPEN	OPEN	UN2212-X
R8711	10K	10K	10K
R8712	OPEN	OPEN	1K
R8713	330	330	470
R8714	330	330	470
R8715	OPEN	OPEN	1K
R8716	OPEN	OPEN	10K
R8717	10K	10K	10K
R8718	OPEN	OPEN	0
R8719	OPEN	OPEN	0
R8720	330	330	OPEN
R8721	330	330	OPEN
R8722	OPEN	OPEN	100
R8723	OPEN	OPEN	270
R8724	OPEN	OPEN	0
R8725	0	0	OPEN
IC8751	S9648	S9648	OPEN
R8751	150K	150K	OPEN
R8752	100	100	OPEN
R8753	33K	33K	OPEN
R8754	15K	15K	OPEN
C8751	NEHL1EM-226X	NEHL1EM-226X	OPEN
CN100U	OPEN	QGA1217F1 -10X	OPEN
CN200U	QGA1217F1 -10X	OPEN	QGA1217F1 -10X

c30169001a001_1017_1/1_0.0

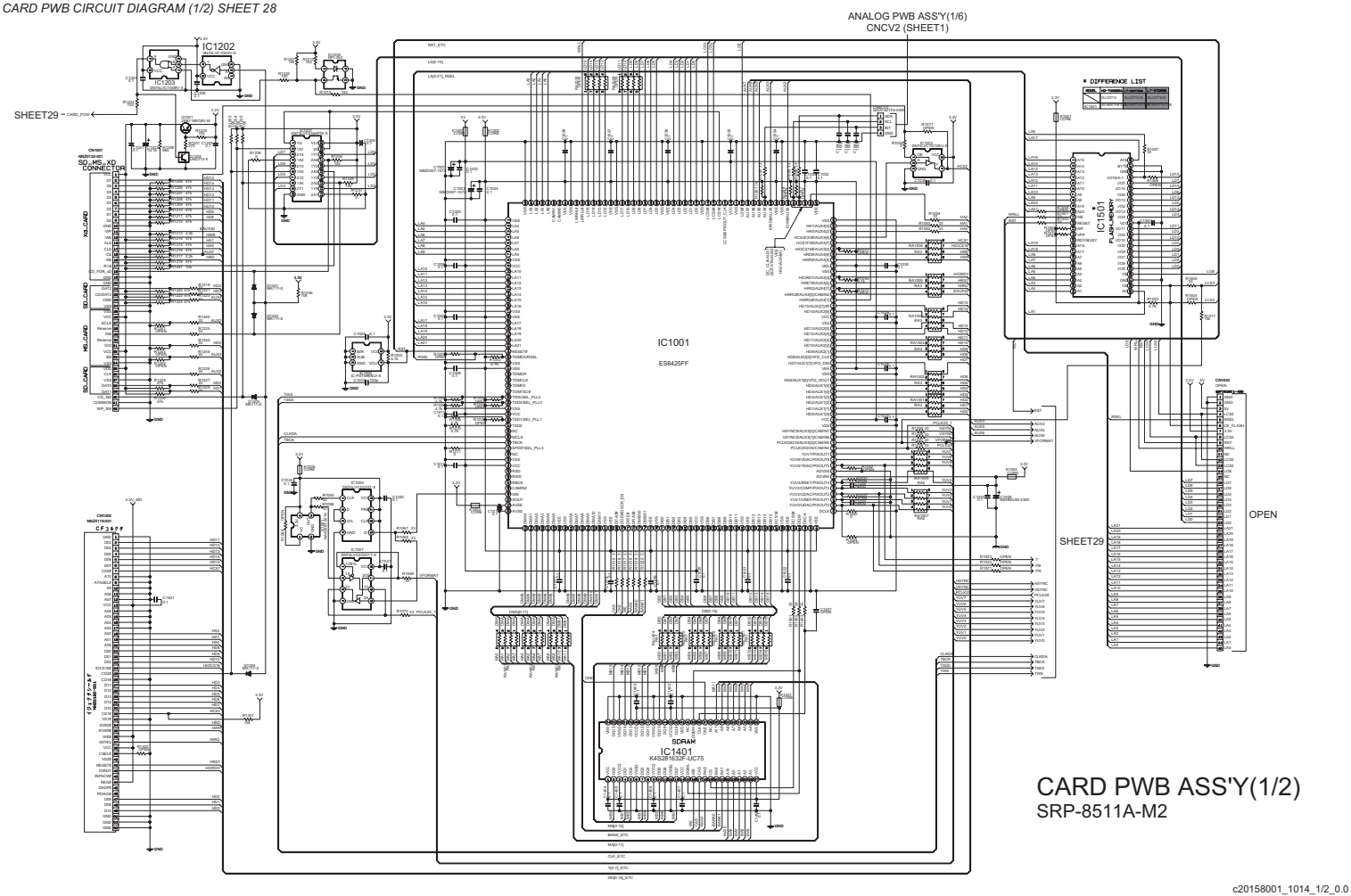
c30171001a001_1017_1/1_0.0

D-AMP PWB CIRCUIT DIAGRAM SHEET 27



c10407001a001_1014_1/1_0.0

CARD PWB CIRCUIT DIAGRAM (1/2) SHEET 28

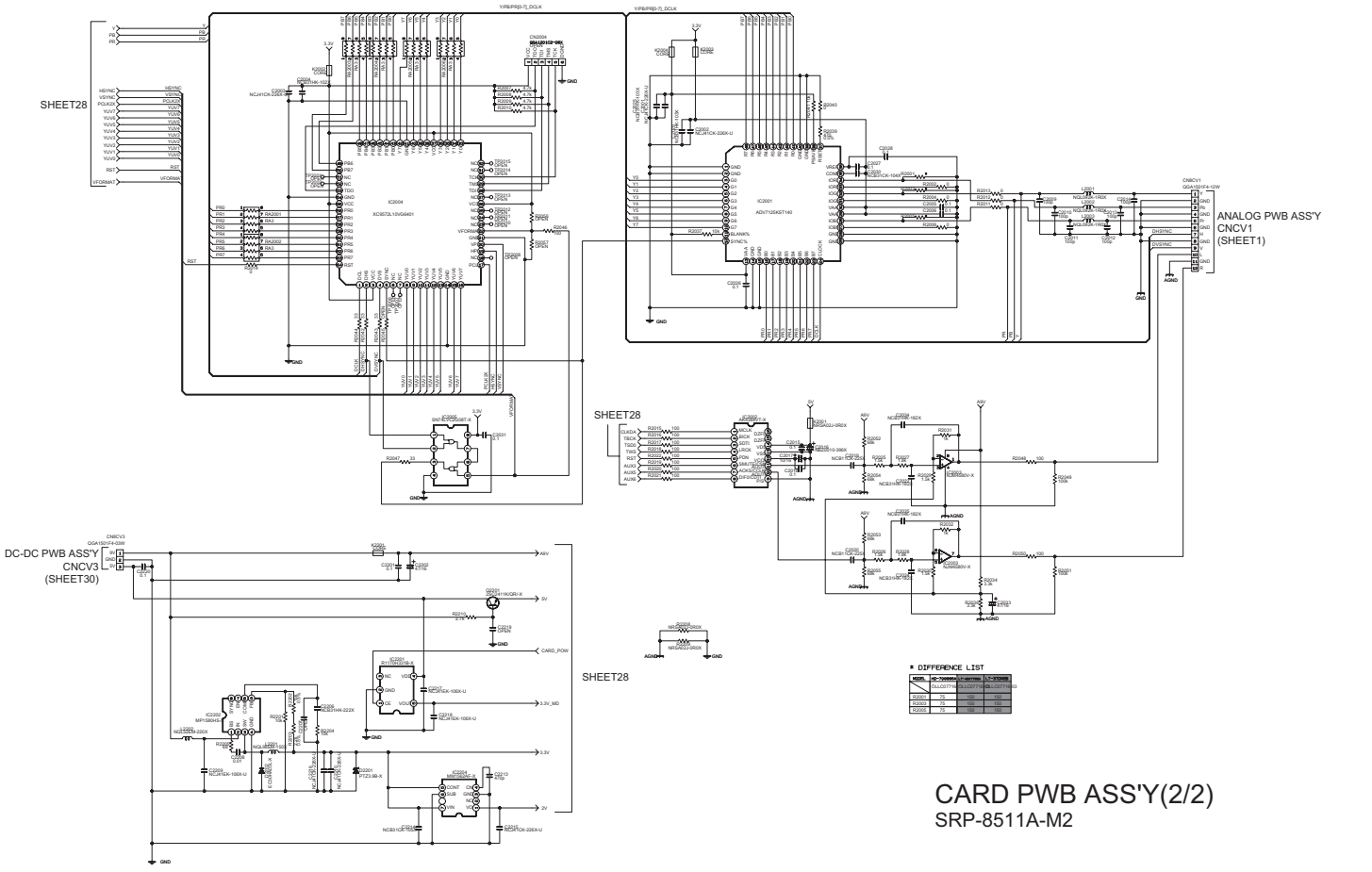


CARD PWB ASS'Y(1/2)

SRP-8511A-M2

c20158001_1014_1/2_0.0

CARD PWB CIRCUIT DIAGRAM (2/2) SHEET 29

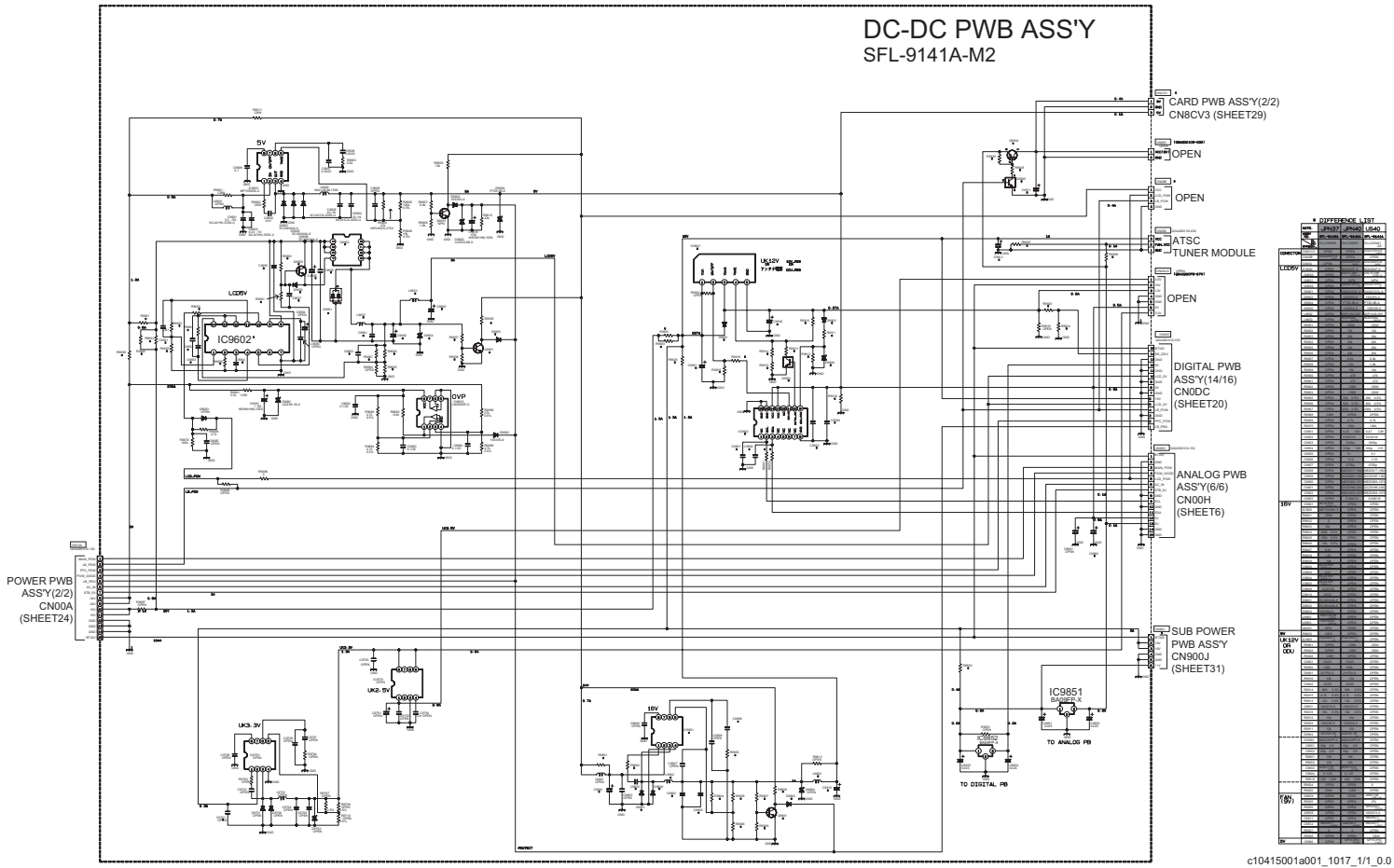


CARD PWB ASS'Y(2/2)

SRP-8511A-M2

c20158002_1014_2/2_0.0

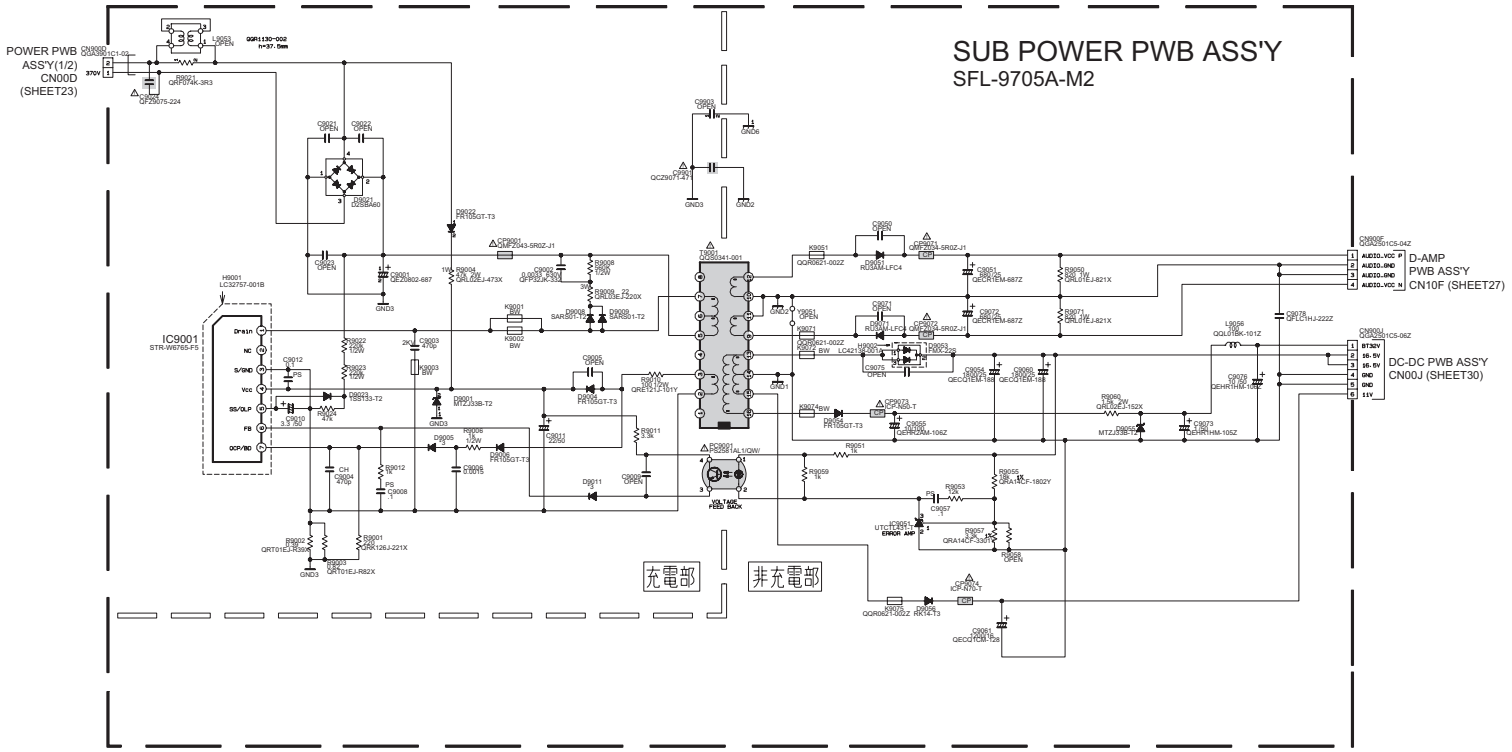
DC-DC PWB CIRCUIT DIAGRAM SHEET 30



c10415001a001_1017_1/1_0.0

(No.YA363)2-63 2-64(No.YA363)

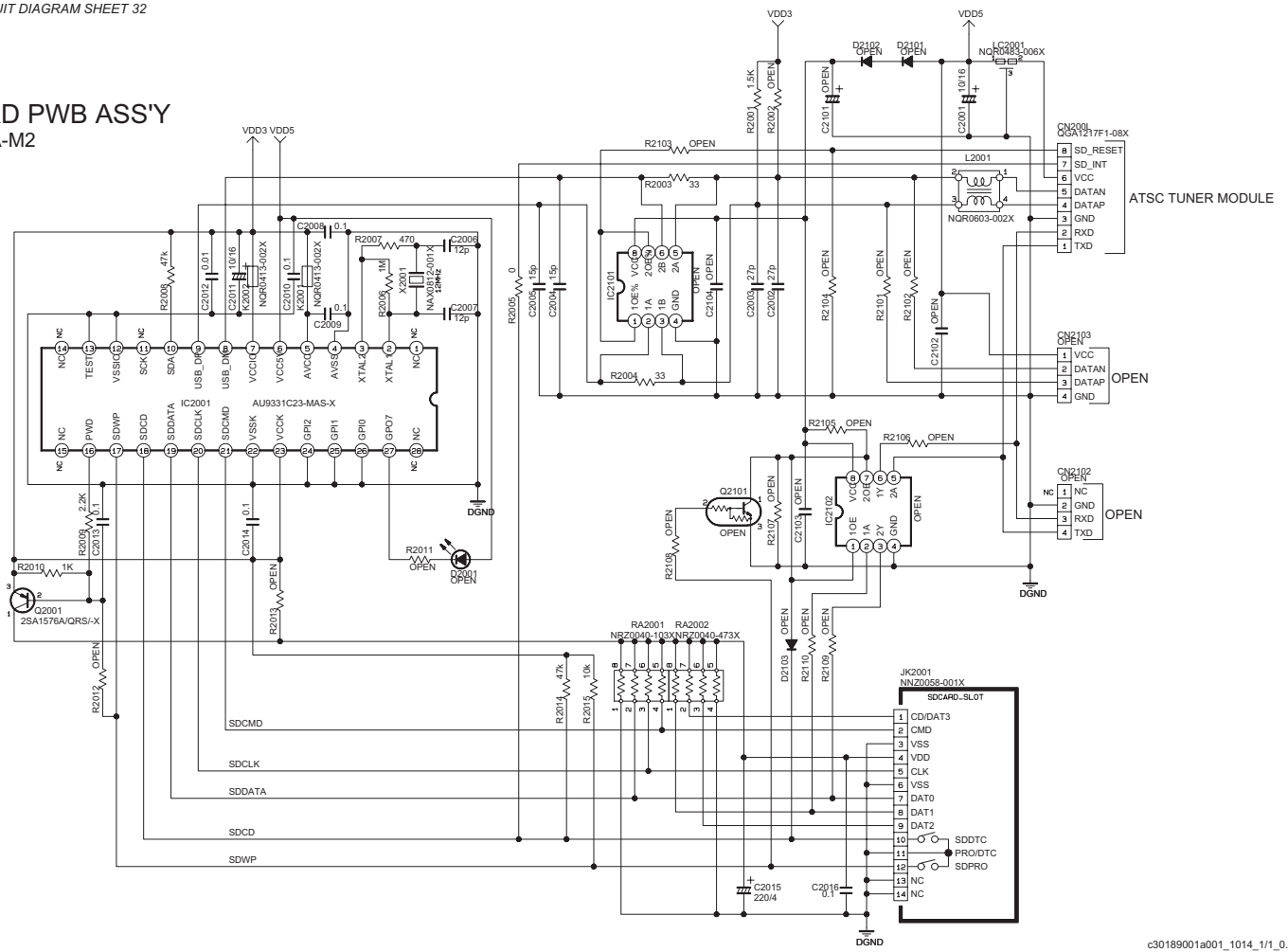
SUB POWER PWB CIRCUIT DIAGRAM SHEET 31



c10416001a001_1017_1/1_0.0

SD CARD PWB ASS'Y

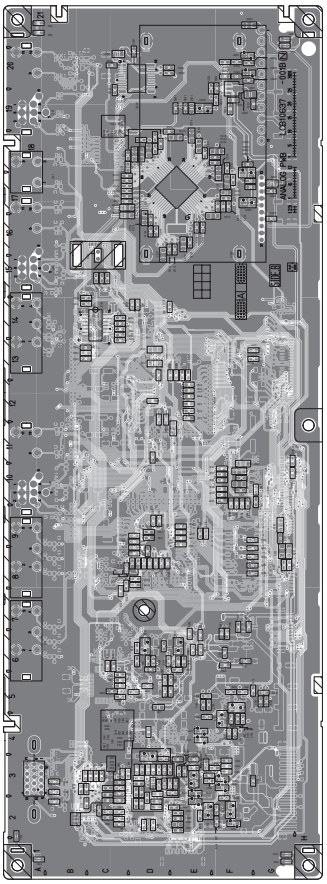
SFL-1302A-M2



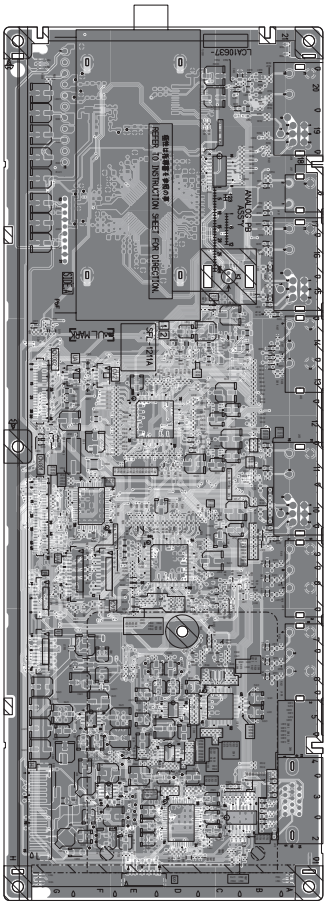
PATTERN DIAGRAMS

ANALOG PWB PATTERN [SOLDER SIDE]

TOP



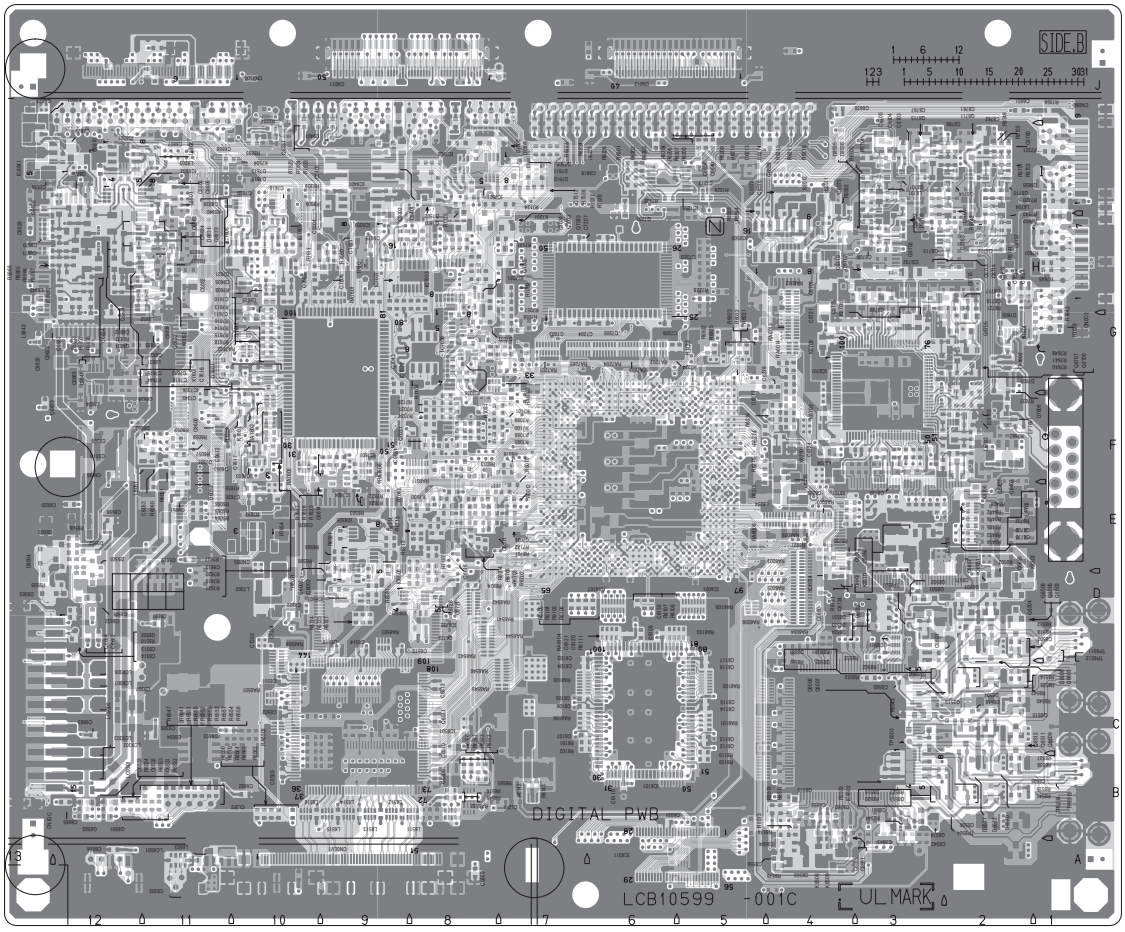
ANALOG PWB PATTERN [PARTS SIDE]



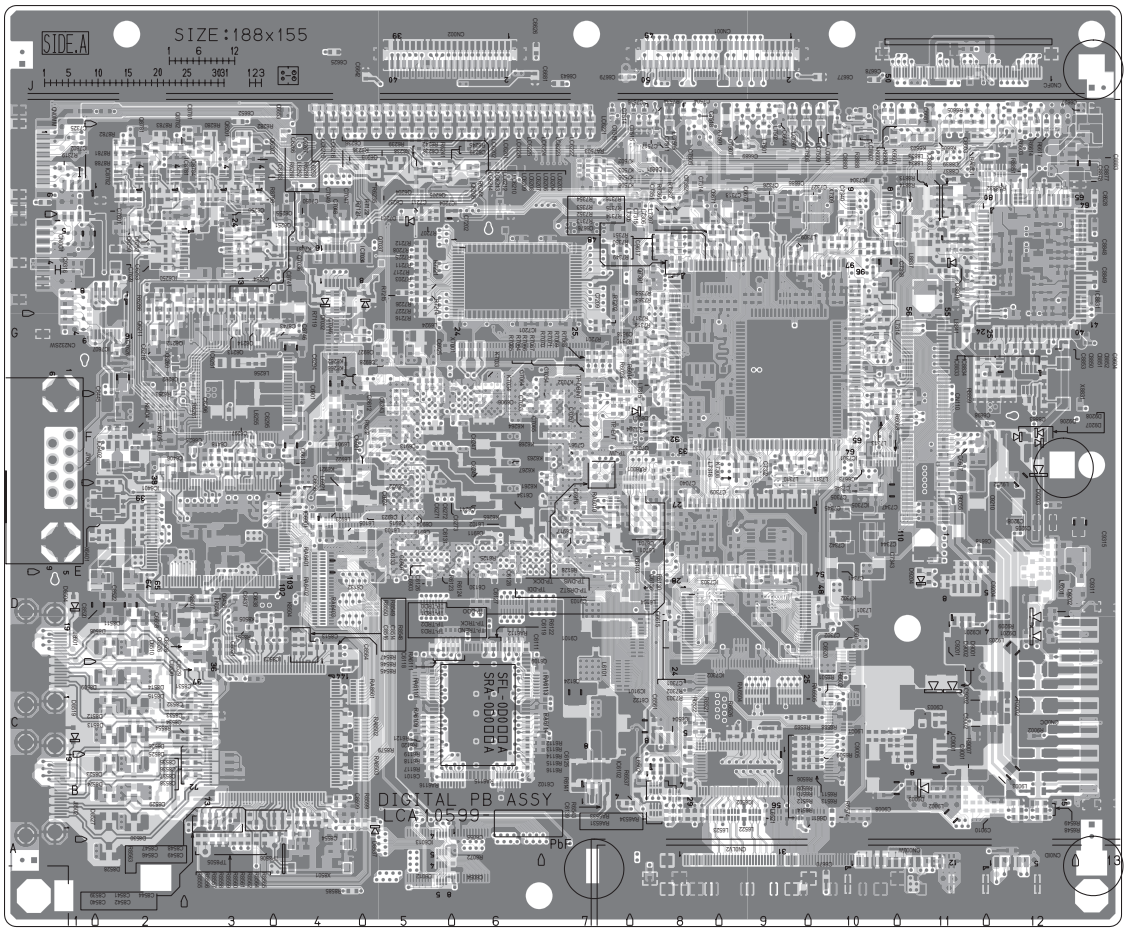
TOP

DIGITAL PWB PATTERN [SOLDER SIDE]

TOP

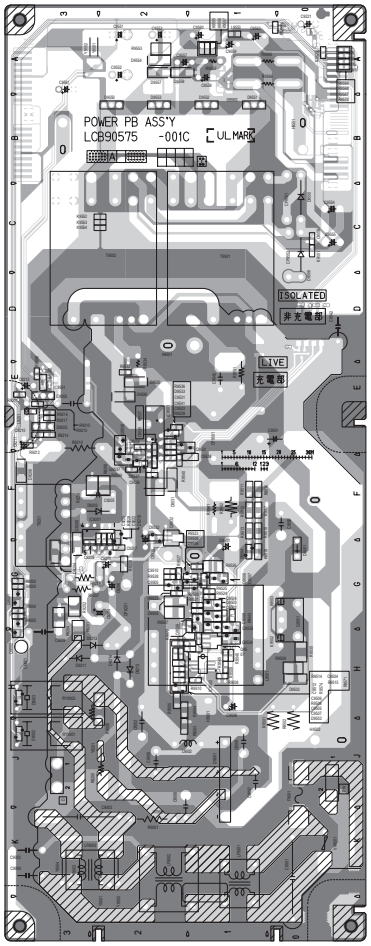


DIGITAL PWB PATTERN [PARTS SIDE]

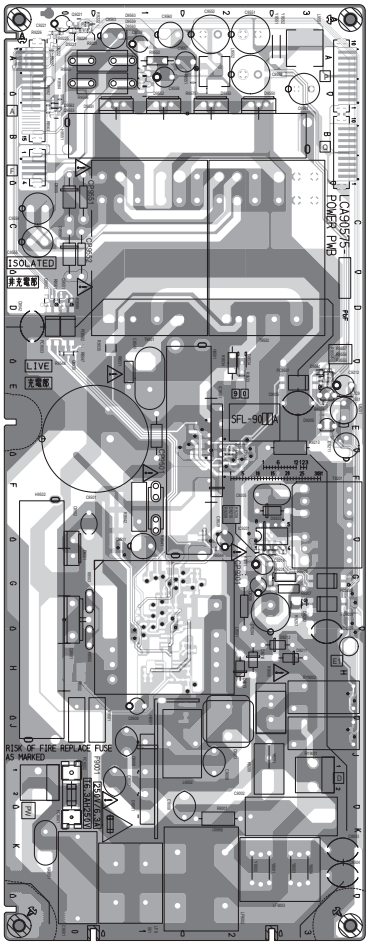


POWER PWB PATTERN [SOLDER SIDE]

TOP

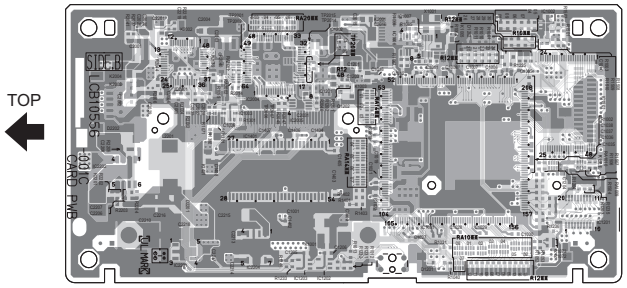


POWER PWB PATTERN [PARTS SIDE]

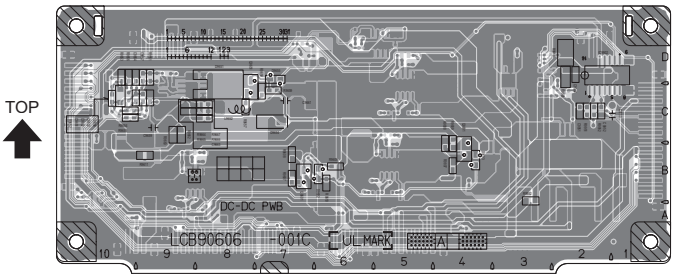


TOP

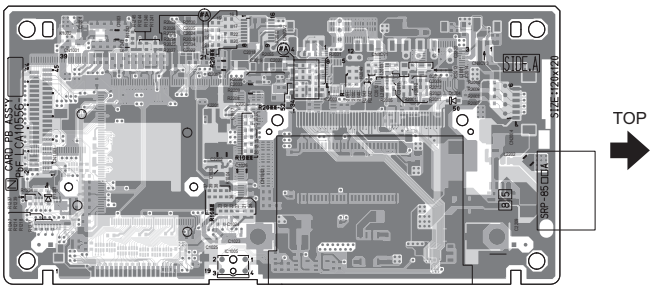
CARD PWB PATTERN [SOLDER SIDE]



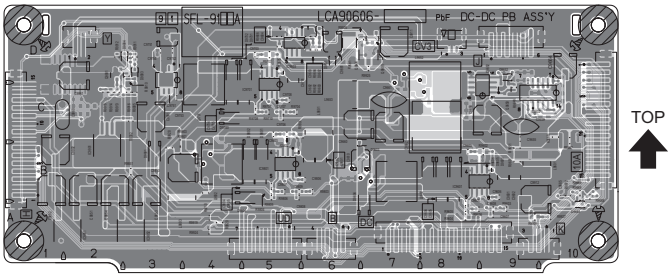
DC-DC PWB PATTERN [SOLDER SIDE]



CARD PWB PATTERN [PARTS SIDE]

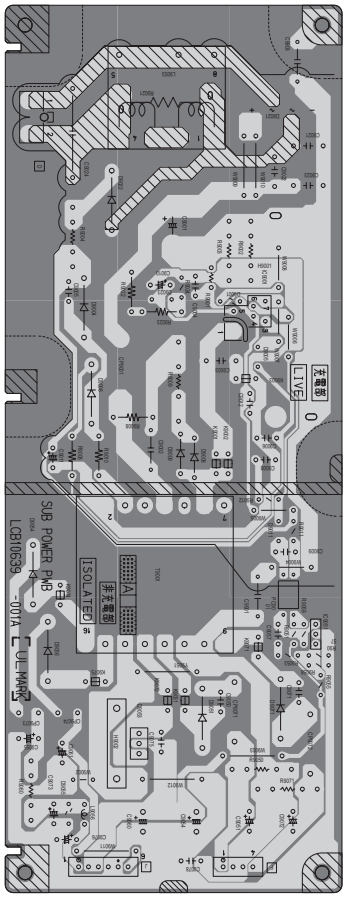


DC-DC PWB PATTERN [PARTS SIDE]



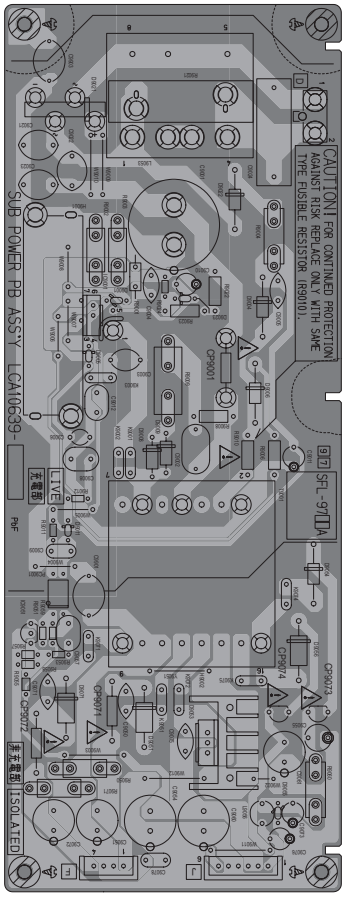
SUB POWER PWB PATTERN [SOLDER SIDE]

TOP

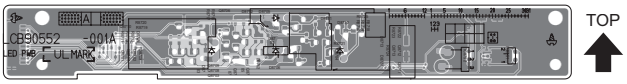


SUB POWER PWB PATTERN [PARTS SIDE]

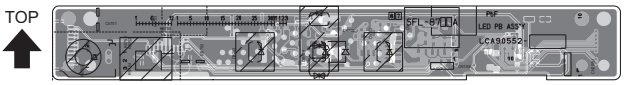
TOP



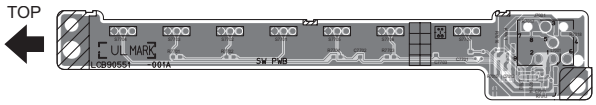
LED PWB PATTERN [SOLDER SIDE]



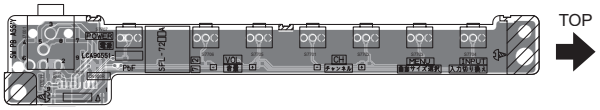
LED PWB PATTERN [PARTS SIDE]



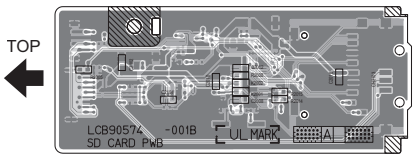
SW PWB PATTERN [SOLDER SIDE]



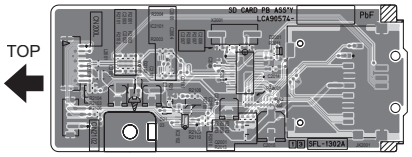
SW PWB PATTERN [PARTS SIDE]



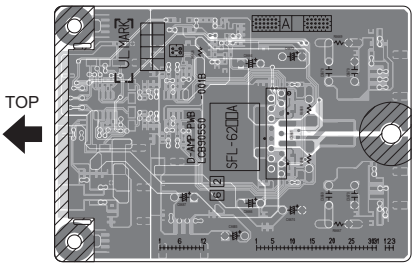
SD CARD PWB PATTERN [SOLDER SIDE]



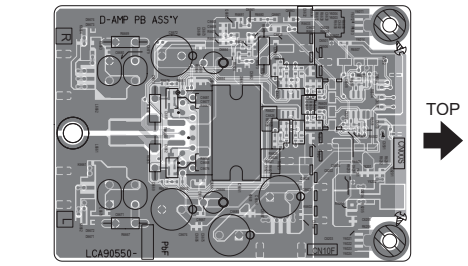
SD CARD PWB PATTERN [PARTS SIDE]



D-AMP PWB PATTERN [SOLDER SIDE]



D-AMP PWB PATTERN [PARTS SIDE]



PARTS LIST

Preliminary

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS	
CR	Carbon Resistor
FR	Fusible Resistor
PR	Plate Resistor
VR	Variable Resistor
HV R	High Voltage Resistor
MF R	Metal Film Resistor
MG R	Metal Glazed Resistor
MP R	Metal Plate Resistor
OM R	Metal Oxide Film Resistor
CMF R	Coating Metal Film Resistor
UNF R	Non-Flammable Resistor
CH V R	Chip Variable Resistor
CH MG R	Chip Metal Glazed Resistor
COMP. R	Composition Resistor
LPTC R	Linear Positive Temperature Coefficient Resistor

CAPACITORS	
C CAP.	Ceramic Capacitor
E CAP.	Electrolytic Capacitor
M CAP.	Mylar Capacitor
CH CAP.	Chip Capacitor
HV CAP.	High Voltage Capacitor
MF CAP.	Metalized Film Capacitor
MM CAP.	Metalized Mylar Capacitor
MP CAP.	Metalized Polystyrol Capacitor
PP CAP.	Polypropylene Capacitor
PS CAP.	Polystyrol Capacitor
TF CAP.	Thin Film Capacitor
MPP CAP.	Metalized Polypropylene Capacitor
TAN. CAP.	Tantalum Capacitor
CH C CAP.	Chip Ceramic Capacitor
BP E CAP.	Bi-Polar Electrolytic Capacitor
CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT 3-3
EXPLODED VIEW PARTS LIST -1 3-4
EXPLODED VIEW -1 3-5
EXPLODED VIEW PARTS LIST -2 3-6
EXPLODED VIEW -2 3-7

PRINTED WIRING BOARD PARTS LIST 3-8
ANALOG P.W. BOARD ASS'Y (SFL-1211A-M2) 3-8
SD-CARD P.W. BOARD ASS'Y (SFL-1302A-M2) 3-11
D-AMP P.W. BOARD ASS'Y (SFL-6201A-M2) 3-11
SW P.W. BOARD ASS'Y (SFL-7203A-M2) 3-12
CARD P.W. BOARD ASS'Y (SFL-8511A-M2) 3-12
LED P.W. BOARD ASS'Y (SFL-8702A-M2) 3-14
POWER P.W. BOARD ASS'Y (SFL-9041A-M2) 3-14
DC-DC P.W. BOARD ASS'Y (SFL-9141A-M2) 3-15
SUB POWER P.W. BOARD ASS'Y (SFL-9705A-M2) 3-16
DIGITAL P.W. BOARD ASS'Y (SFL0D151A-M2) 3-16
ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2101B-M2) 3-21
REMOTE CONTROL UNIT PARTS LIST (RM-C14G-1H) 3-21
PACKING 3-22
PACKING PARTS LIST 3-23

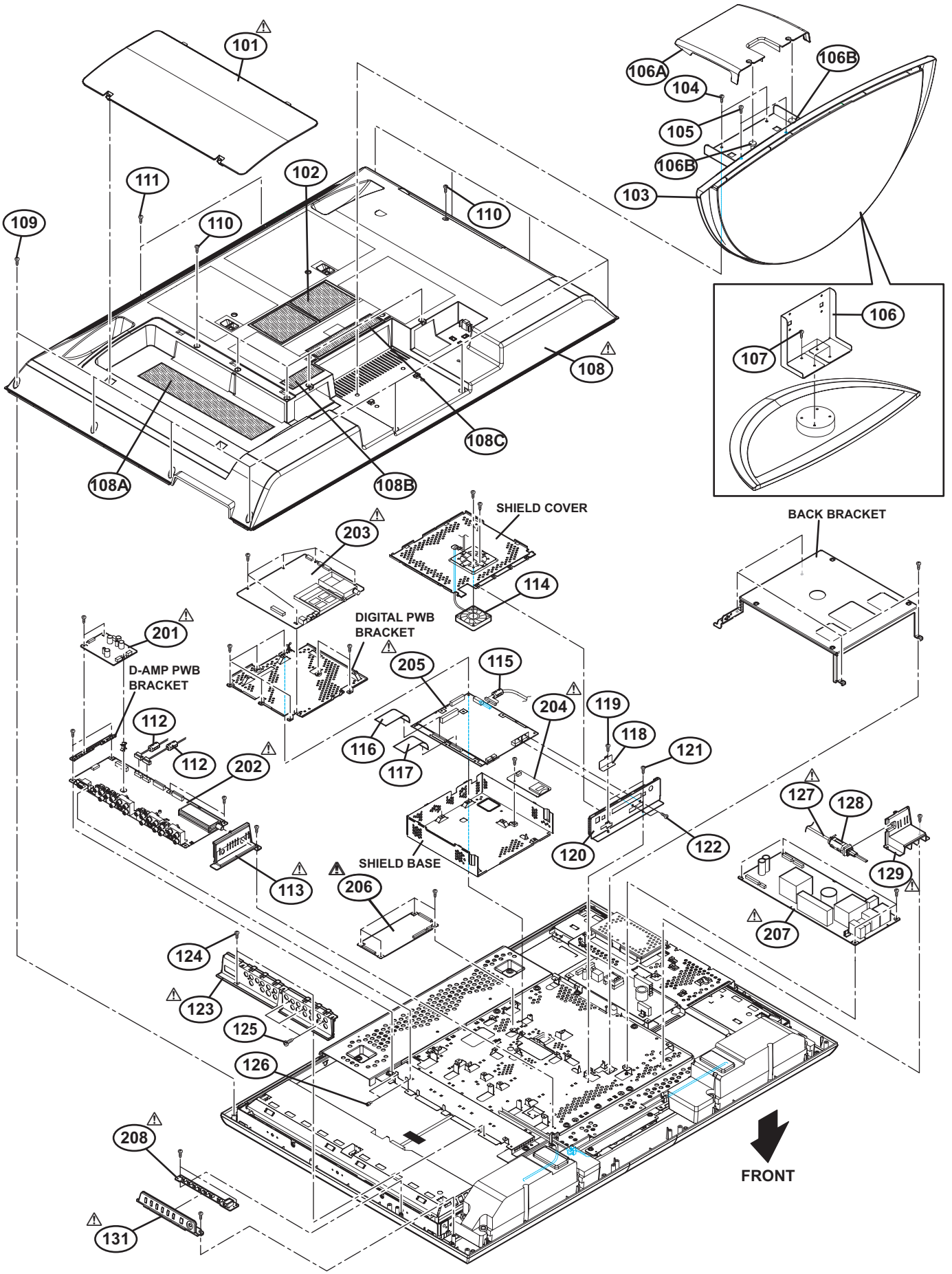
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.
ANALOG P.W.B	SFL-1211A-M2
SD-CARD P.W.B	SFL-1302A-M2
D-AMP P.W.B	SFL-6201A-M2
SW P.W.B	SFL-7203A-M2
CARD P.W.B	SRP-8511A-M2
LED P.W.B	SFL-8702A-M2
POWER P.W.B	SFL-9041A-M2
DC-DC P.W.B	SFL-9141A-M2
SUB POWER P.W.B	SFL-9705A-M2
DIGITAL P.W.B	SFL0D151A-M2
ATSC TUNER MODULE P.W.B	SSD-2101B-M2
REMOTE CONTROL UNIT	RM-C14G-1H

EXPLODED VIEW PARTS LIST -1

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	101	LC12550-001A-0K	JACK COVER		
	102	LC32925-001A-A	LICENSE LABEL		
	103	LC42377-001A-C	STAND BASE UNIT		
	104	QYSPSPD5016MA	SCREW	M5 x 16mm(x2)	
	105	QYSPSPD5020ZA	SCREW	M5 x 20mm(x2)	
	106	LC42378-001A-C	SUPPORT UNIT	Inc.106A/106B	
	106A	T0148-01	STAND COVER		
	106B	M4R-0909-C3-16	SCREW	(x2)	
	107	QYSPSPD5016MA	SCREW	M5 x 16mm(x4)	
⚠	108	LC12601-002B-0K	REAR COVER	Inc.108A-108C	
	108A	LC33287-003A	OPERATION SHEET		
	108B	LC33288-004B	OPERATION SHEET		
	108C	LC33167-008B	OPERATION SHEET		
	109	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x10)	
	110	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x6)	
	111	LC42063-002A	SCREW	(x2)	
	112	QQR0490-001	NOISE FILTER	(x2)	
⚠	113	LC12507-002A	TUNER BASE		
	114	QAR0370-002	COOLING FAN		
	115	QQR0490-001	NOISE FILTER		
	116	QUQ105-5009AA-E	FFC WIRE	50pin 9cm	
	117	QUQ105-4009AA-E	FFC WIRE	40pin 9cm	
	118	LC42340-001B-HK	SERVICE COVER		
	119	LC42063-001A	SCREW		
	120	LC12497-003B-HK	SHIELD TERMINAL		
	121	LC42063-001A	SCREW		
	122	QYSPSP3008ZA	SCREW	M3 x 8mm(x2)	
⚠	123	LC12506-002B	TERMINAL BASE		
	124	LC42063-002A	SCREW	(x2)	
	125	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x3)	
	126	QNB0036-001	HEX SCREW	(x2)	
⚠	127	QMPD460-170-JC	POWER CORD(US/CA)	1.7m BLACK	
	128	QQR0491-001	FERRITE CORE		
⚠	129	LC22007-002A	POWER CORD HOLDER		
⚠	131	LC33196-006A	CONTROL ASSY		
⚠	201	SFL-6201A-M2	D-AMP PWB		
⚠	202	SFL-1211A-M2	ANALOG PWB		
⚠	203	SSD-2101B-M2	ATSC TUNER MODULE PWB		
⚠	204	SFL-1302A-M2	SD-CARD PWB		
⚠	205	SFL0D151A-M2	DIGITAL PWB		
⚠	206	SFL-9141A-M2	DC-DC PWB		
⚠	207	SFL-9041A-M2	POWER PWB		
⚠	208	SFL-7203A-M2	SW PWB		

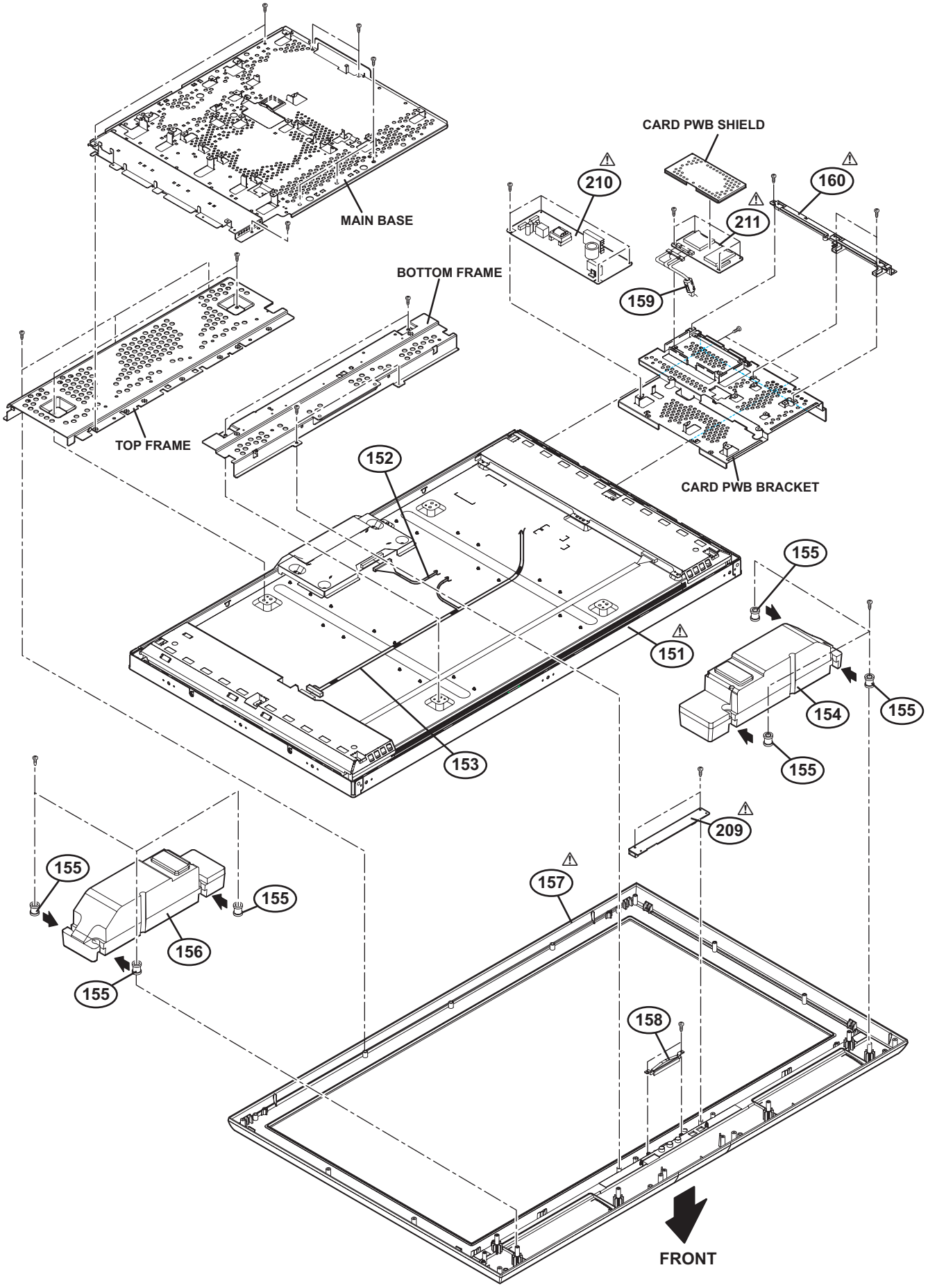
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	151	QLD0398-001-JIM	LCD PANEL UNIT		
	152	WJW0038-001A-E	DIGITAL(LVDS) CABLE		
	153	WJZ0181-001B-E	E-HARNESS ASSY		
	154	LC41913-006A-C	SPEAKER ASSY	LEFT	
	155	LC41458-002A	TAPPING SCREW	(x6)	
	156	LC41913-005A-C	SPEAKER ASSY	RIGHT	
⚠	157	LC12197-003A-0K	FRONT PANEL ASSY		
	158	LC33125-001B-HK	LED LENS		
	159	QQR0491-001	FERRITE CORE		
⚠	160	LC22046-002B-0K	CARD BASE ASSY		
⚠	209	SFL-8702A-M2	LED PWB		
⚠	210	SFL-9705A-M2	SUB POWER PWB		
⚠	211	SRP-8511A-M2	CARD PWB		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

ANALOG P.W. BOARD ASS'Y (SFL-1211A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
IC101	R2S11004FT	IC	
IC102	R2S11003FT	IC	
IC103	MM1510XN-X	IC	
IC104	MM1510XN-X	IC	
IC105	MM1510XN-X	IC	
IC106	CD4066BNS-X	IC	
IC381	M62320FP-X	IC	
IC601	NJW1181FP1	IC	
IC606	M62320FP-X	IC	
IC751	BH3547F-X	IC	
IC902	BA33BC0FP-X	IC	
IC3101	CXA2205Q-X	IC	
Q101	UN2213-X	DIGI TRANSISTOR	
Q102	UN2213-X	DIGI TRANSISTOR	
Q106	2SK1374-X	MOS FET	
Q107	2SK1374-X	MOS FET	
Q108	2SC3928A/QR/-X	TRANSISTOR	
Q109	2SA1022/BC/-X	TRANSISTOR	
Q110	2SA1022/BC/-X	TRANSISTOR	
Q111	2SA1022/BC/-X	TRANSISTOR	
Q112	2SA1022/BC/-X	TRANSISTOR	
Q113	2SC3928A/QR/-X	TRANSISTOR	
Q281	2SA1530A/QR/-X	TRANSISTOR	
Q431	UN2226-X	DIGI TRANSISTOR	
Q432	UN2226-X	DIGI TRANSISTOR	
Q433	UN2110-X	DIGI TRANSISTOR	
Q614	2SA1530A/QR/-X	TRANSISTOR	
Q751	2SA1530A/QR/-X	TRANSISTOR	
Q752	UN2226-X	DIGI TRANSISTOR	
Q3001	2SA1530A/QR/-X	TRANSISTOR	
Q3002	2SC3928A/QR/-X	TRANSISTOR	
D105	1SS355-X	SI DIODE	
D281	1SS355-X	SI DIODE	
D282	1SS355-X	SI DIODE	
D283	1SS355-X	SI DIODE	
D401	UDZS10B-X	Z DIODE	
D402	UDZS10B-X	Z DIODE	
D403	UDZS10B-X	Z DIODE	
D404	UDZS10B-X	Z DIODE	
D405	UDZS10B-X	Z DIODE	
D406	UDZS10B-X	Z DIODE	
D407	UDZS10B-X	Z DIODE	
D408	UDZS10B-X	Z DIODE	
D409	UDZS10B-X	Z DIODE	
D411	UDZS10B-X	Z DIODE	
D412	UDZS10B-X	Z DIODE	
D413	UDZS10B-X	Z DIODE	
D414	UDZS10B-X	Z DIODE	
D415	UDZS10B-X	Z DIODE	
D416	UDZS10B-X	Z DIODE	
D420	UDZS10B-X	Z DIODE	
D421	UDZS10B-X	Z DIODE	
D422	UDZS10B-X	Z DIODE	
D423	UDZS10B-X	Z DIODE	
D424	UDZS10B-X	Z DIODE	
D425	UDZS10B-X	Z DIODE	
D427	UDZS10B-X	Z DIODE	
D428	UDZS10B-X	Z DIODE	
D431	UDZS10B-X	Z DIODE	
D432	UDZS10B-X	Z DIODE	
D461	UDZS10B-X	Z DIODE	
D462	UDZS10B-X	Z DIODE	
D463	UDZS10B-X	Z DIODE	
D464	UDZS10B-X	Z DIODE	
D465	UDZS10B-X	Z DIODE	
D466	UDZS10B-X	Z DIODE	
D491	UDZS3.3B-X	Z DIODE	
D492	S9648	PHOTO CONDUCTOR	
D605	1SS355-X	SI DIODE	
D606	1SS355-X	SI DIODE	
D607	1SS355-X	SI DIODE	
D608	1SS355-X	SI DIODE	
D615	1SS355-X	SI DIODE	
D751	1SS355-X	SI DIODE	
D752	1SS355-X	SI DIODE	
C101	NEHL1CM-107X	E CAPACITOR	100uF 16V M
C102	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C106	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C108	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C116	NCB11AK-106X	C CAPACITOR	10uF 10V K

⚠Ref No.	Part No.	Part Name	Description Local
C117	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C118	NCB31CK-105X	C CAPACITOR	1uF 16V K
C119	NCB31CK-105X	C CAPACITOR	1uF 16V K
C120	NCB31CK-105X	C CAPACITOR	1uF 16V K
C121	NCB31CK-105X	C CAPACITOR	1uF 16V K
C122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C124	NCB31CK-105X	C CAPACITOR	1uF 16V K
C125	NCB31CK-105X	C CAPACITOR	1uF 16V K
C126	NCB31CK-105X	C CAPACITOR	1uF 16V K
C127	NCB31CK-105X	C CAPACITOR	1uF 16V K
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C130	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C131	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C132	NCB31CK-105X	C CAPACITOR	1uF 16V K
C133	NCB31CK-105X	C CAPACITOR	1uF 16V K
C134	NCB31CK-105X	C CAPACITOR	1uF 16V K
C135	NCB31CK-105X	C CAPACITOR	1uF 16V K
C136	NCB11AK-106X	C CAPACITOR	10uF 10V K
C137	NCB11AK-106X	C CAPACITOR	10uF 10V K
C138	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C139	NCB31CK-105X	C CAPACITOR	1uF 16V K
C141	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C142	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C144	NCB31CK-105X	C CAPACITOR	1uF 16V K
C145	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C146	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C147	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C148	NCB31CK-105X	C CAPACITOR	1uF 16V K
C149	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C150	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C151	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C152	NCB31CK-105X	C CAPACITOR	1uF 16V K
C153	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C154	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C155	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C156	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C157	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C158	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C161	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C166	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C167	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C168	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C169	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C170	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C171	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C172	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C173	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C174	NDC31HJ-331X	C CAPACITOR	330pF 50V J
C175	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C176	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C177	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C178	NCB31CK-105X	C CAPACITOR	1uF 16V K
C179	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C180	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C181	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C182	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C183	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C184	NDC31HJ-221X	C CAPACITOR	220pF 50V J
C185	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C187	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C189	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C199	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C200	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C204	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C206	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C207	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C208	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C209	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C210	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C211	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C216	NCB11AK-106X	C CAPACITOR	10uF 10V K
C217	NCB11AK-106X	C CAPACITOR	10uF 10V K
C218	NCB11AK-106X	C CAPACITOR	10uF 10V K
C219	NCB31CK-105X	C CAPACITOR	1uF 16V K
C220	NCB31CK-105X	C CAPACITOR	1uF 16V K
C261	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C262	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C263	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C264	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C281	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C381	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C382	NDC31HJ-680X	C CAPACITOR	68pF 50V J

⚠Ref No.	Part No.	Part Name	Description	Local
C383	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C402	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C403	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C404	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C405	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C406	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C407	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C408	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C409	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C410	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C411	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C412	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C413	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C417	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C418	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C419	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C420	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C421	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C422	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C424	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C425	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C431	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C432	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C433	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C461	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C462	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C463	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C464	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C465	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C466	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C468	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C469	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C491	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C492	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C493	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C494	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C612	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C614	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C615	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C622	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C623	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C624	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C625	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C628	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C630	NCB21CK-184X	C CAPACITOR	0.18uF 16V K	
C631	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C634	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C637	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C638	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C639	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C640	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C641	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C642	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C644	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	
C646	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	
C647	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C648	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C649	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C650	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C651	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C653	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C654	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C655	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C657	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	
C659	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	
C660	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C661	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C662	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C663	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C664	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C665	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C666	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C667	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C668	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C669	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C670	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C716	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C717	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C751	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C752	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C753	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C754	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C755	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C756	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C757	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C758	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C759	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C760	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C761	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
C904	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C905	NEHM1CM-476X	E CAPACITOR	47uF 16V M	
C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M	
C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M	
C920	NEX50JM-156X	E CAPACITOR	15uF 6.3V M	
C3001	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C3002	NEHL1HM-106X	E CAPACITOR	10uF 50V M	
C3005	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3006	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C3106	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3108	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3109	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C3110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3111	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3112	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C3113	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3114	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3116	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3117	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3118	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3119	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C3120	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3121	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3122	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	
C3123	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C3124	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C3125	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C3126	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3127	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C3128	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C3129	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3130	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3131	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3132	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C3133	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3134	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3135	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	
C3136	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C3137	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3155	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C3156	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
R101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R102	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R103	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R104	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R140	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R141	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R142	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R143	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R144	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R145	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R146	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R147	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R150	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R153	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R154	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R155	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R156	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R157	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R158	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R162	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R164	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R165	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R166	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R167	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R168	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R169	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R181	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R183	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R184	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R188	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R194	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description Local
R195	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R197	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R198	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R206	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R207	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R208	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R209	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R210	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R212	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R221	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R223	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R224	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R228	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R231	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R232	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R237	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R238	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R241	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R243	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R245	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R246	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R247	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R249	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R255	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R259	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R260	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R261	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R263	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R265	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R267	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R280	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R284	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R286	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R288	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R289	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R293	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
R294	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R295	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R296	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R297	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R382	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R384	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R390	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R391	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R402	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R403	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R404	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R405	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R406	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R407	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R408	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R410	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R412	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R413	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R414	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R418	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R419	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R420	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R422	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R423	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R426	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R427	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R433	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R434	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R435	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R437	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R438	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R439	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R440	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R441	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R442	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R443	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R444	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R461	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R464	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R467	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R475	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R476	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R491	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R587	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R588	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R591	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R592	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R638	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R639	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R642	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R644	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R645	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R647	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R649	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R650	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R651	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R652	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R654	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R687	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R694	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R695	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R696	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R700	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R718	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R719	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R720	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R723	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R758	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R761	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R764	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R765	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R769	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R770	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3006	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R3007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3119	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J
R3122	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3123	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J
R3125	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3126	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R3128	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R3129	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R3131	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R3132	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R3133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3167	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R3201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3206	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L101	NQL79GM-100X	COIL	10uH M
L902	NQL52EM-220X	COIL	22uH M
L903	NQR0562-010X	CHOKE COIL	
L906	NQL52EM-220X	COIL	22uH M
L3001	NQL79GM-100X	COIL	10uH M
L3002	NQL79GM-100X	COIL	10uH M
CN001	QGF0508C1-50W	CONNECTOR	FFC/FPC (1-50)
CN002	QGF0508C1-40W	CONNECTOR	FFC/FPC (1-40)

⚠Ref No.	Part No.	Part Name	Description	Local
J401	QNZ0726-001	AV JACK	INPUT-1(S/V/L/R)	
J402	QNN0650-001	PIN JACK	INPUT-1(COMPONENT)	
J403	QNZ0726-001	AV JACK	INPUT-2(S/V/L/R)	
J405	QNN0651-001	PIN JACK	INPUT-3(V/L/R)	
J406	QNN0650-001	PIN JACK	INPUT-3(COMPONENT)	
J407	QNN0652-001	PIN JACK	AUDIO IN	
J408	QNZ0726-001	AV JACK	MONITOR/REC OUT	
J410	QNZ0561-001	D CONNECTOR	PC IN	
⚠TU3001	QAU0430-001	TUNER		

SD-CARD P.W. BOARD ASS'Y (SFL-1302A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC2001	AU9331C23-MAS-X	IC		
Q2001	2SA1576A/QRS/-X	TRANSISTOR		
C2001	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C2002	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2003	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2004	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2005	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2006	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2007	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2011	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C2012	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2015	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C2016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
R2001	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2003	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2004	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2006	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2007	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2014	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
RA2001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4	
RA2002	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4	
L2001	NQR0603-002X	EMI FILTER		
K2001	NQR0413-002X	FERRITE BEADS		
K2002	NQR0413-002X	FERRITE BEADS		
LC2001	NQR0483-006X	EMI FILTER		
X2001	NAX0812-001X	CRYSTAL		

D-AMP P.W. BOARD ASS'Y (SFL-6201A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC6201	PQ20WZ11-X	IC		
IC6501	RC4558D-X	IC		
IC6621	LM393DR-X	IC		
IC6661	TDA8928ST/N1	IC		
Q6661	UN2112-X	DIGI TRANSISTOR		
Q6662	2SC3928A/QR/-X	TRANSISTOR		
Q6663	UN2212-X	DIGI TRANSISTOR		
D6201	1SS355-X	SI DIODE		
D6501	UDZS6.2B-X	Z DIODE		
D6663	UDZS3.3B-X	Z DIODE		
D6664	1SS355-X	SI DIODE		
D6671	UDZS20B-X	Z DIODE		
D6672	UDZS20B-X	Z DIODE		
D6673	UDZS20B-X	Z DIODE		
D6674	UDZS20B-X	Z DIODE		
C6201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6202	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6203	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6204	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6503	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6504	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6505	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C6506	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C6507	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C6508	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C6601	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6602	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6621	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6622	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6623	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6624	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6626	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6627	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6628	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6631	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6632	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6661	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6662	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6664	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6665	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6666	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6667	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6668	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6669	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6670	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C6671	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6672	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6673	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6674	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6675	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6676	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6677	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6678	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6679	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C6680	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6681	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6682	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6683	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6684	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6685	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6686	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6687	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
R6201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R6203	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R6204	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6503	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6504	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6506	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6507	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6606	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6623	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6624	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
R6625	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6626	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6627	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6629	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6630	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6632	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6633	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R6634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6661	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6663	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6665	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6666	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J	
R6667	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R6668	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J	
R6669	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R6670	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R6671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6673	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6674	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6675	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R6676	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6677	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6680	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6691	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
L6661	NQLC8CM-560X	COIL	56uH M	
L6662	NQLC8CM-560X	COIL	56uH M	
K6601	NQR0499-002X	FERRITE BEADS		
K6602	NQR0499-002X	FERRITE BEADS		
K6661	NQR0499-002X	FERRITE BEADS		
K6662	NQR0499-002X	FERRITE BEADS		
K6663	NQR0499-002X	FERRITE BEADS		
K6664	NQR0499-002X	FERRITE BEADS		

SW P.W. BOARD ASS'Y (SFL-7203A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
D7011	UDZS6.2B-X	Z DIODE		
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R7011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7701	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7704	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
L7001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
J7001	QNS0097-001	3.5 JACK	HEADPHONE	
K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
S7701	QSW1131-001Z	TACT SWITCH	CHANNEL-	
S7702	QSW1131-001Z	TACT SWITCH	CHANNEL+	
S7703	QSW1131-001Z	TACT SWITCH	MENU/OK	
S7704	QSW1131-001Z	TACT SWITCH	INPUT	
S7705	QSW1131-001Z	TACT SWITCH	VOLUME+	
S7706	QSW1131-001Z	TACT SWITCH	VOLUME-	
S7707	QSW1131-001Z	TACT SWITCH	POWER	

CARD P.W. BOARD ASS'Y (SFL-8511A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC1001	ES6425FF	IC		
IC1002	IC-PST596N/J/-X	IC		
IC1003	SN74LVC1G126V-X	IC		
IC1005	RPI-352	PHOTO TRANSISTOR		
IC1006	SN74LVC2G74T-X	IC		
IC1007	SN74LVC2G241T-X	IC		
IC1201	SN74LVC244APW-X	IC		
IC1202	SN74LVC1G04V-X	IC		
IC1203	SN74LVC1G08V-X	IC		
IC1401	K4S281632F-UC75	IC(DIGITAL)		
IC1501	SA16M90TFIR1D03	IC(MICRO C ROM)		
IC2001	ADV7125KST140	IC		
IC2002	AK4384VT-X	IC		
IC2003	NJM4580V-X	IC		
IC2004	XC9572L10VG6401	IC		
IC2005	SN74LVC2G08T-X	IC		
IC2201	R1170H331B-X	IC		
IC2202	MP1580HS-X	IC		
IC2204	MM1562AF-X	IC		
Q1201	2SB1188/QR/-W	TRANSISTOR		
Q1202	UN2213-X	DIGI TRANSISTOR		
Q2201	2SC2411K/QR/-X	TRANSISTOR		
D1201	MA111-X	SI DIODE		
D1202	MA111-X	SI DIODE		
D1203	MA111-X	SI DIODE		
D1204	MA111-X	SI DIODE		
D2201	PTZ3.9B-X	Z DIODE		
D2202	EC30HA03L-X	SB DIODE		
C1001	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C1002	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1003	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C1004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1005	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1007	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1010	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1011	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1012	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1017	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1020	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1022	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1025	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1026	NEHM0JM-336X	E CAPACITOR	33uF 6.3V M	
C1027	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1028	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1029	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1033	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1034	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1035	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1036	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1038	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1039	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1040	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1041	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1043	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1044	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1045	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1201	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1202	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C1203	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1301	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1402	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1403	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1404	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1405	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1406	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1407	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1408	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2001	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C2002	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C2003	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C2004	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2005	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2009	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2010	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2011	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2012	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2013	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2014	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2016	NBZ0010-396X	SP E CAPACITOR	39uF 16V M	
C2017	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C2018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2019	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2020	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2022	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2024	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2026	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2027	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2028	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2033	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C2034	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2035	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C2201	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2202	NEHL1CM-476X	E CAPACITOR	47uF 16V M	

⚠Ref No.	Part No.	Part Name	Description Local
C2206	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C2208	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
C2209	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C2210	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C2213	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C2214	NCB31CK-105X	C CAPACITOR	1uF 16V K
C2215	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C2216	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C2217	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C2218	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C2220	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
R1002	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1003	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1004	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1008	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1010	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1012	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1015	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1016	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1017	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1018	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1019	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1020	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1036	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1037	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1038	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1039	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1044	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1052	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1053	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1054	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1056	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1058	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1060	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1061	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1065	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1066	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1067	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1068	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1069	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1070	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1201	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R1202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1208	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1209	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1210	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1211	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1212	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1214	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1215	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1216	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1218	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1219	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1221	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1222	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1223	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1224	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1225	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1226	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1227	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1228	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1229	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1231	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1232	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1233	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1234	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1235	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1236	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1237	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1239	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1240	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1242	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1244	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1246	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1247	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1248	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1401	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1402	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1403	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1501	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1502	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1505	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1507	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R2002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R2004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R2006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2007	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R2008	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R2009	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R2010	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R2011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2015	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2018	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2019	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2020	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2021	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2022	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2025	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R2026	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R2027	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R2028	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R2029	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R2030	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R2031	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R2032	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R2034	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R2036	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R2037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2039	NRSA63D-471X	MG RESISTOR	470Ω 1/16W D
R2040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2042	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R2043	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R2044	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R2046	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2047	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R2048	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2049	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R2050	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2051	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R2052	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R2053	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R2054	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R2055	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2202	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
R2203	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D
R2204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2205	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R2208	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R2209	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R2210	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RA1001	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1002	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1003	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1004	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1005	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1006	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1007	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1008	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA1401	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1402	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1403	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1404	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1405	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1406	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA1407	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J x4
RA2001	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA2002	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA2003	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA2004	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA2005	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4
RA2006	NRZ0034-330W	NET RESISTOR	33Ω 1/32W J x4

⚠Ref No.	Part No.	Part Name	Description	Local
L2001	NQL092K-1R0X	COIL	1uH K	
L2002	NQL092K-1R0X	COIL	1uH K	
L2003	NQL092K-1R0X	COIL	1uH K	
L2201	NQL98EM-150X	COIL	15uH M	
L2202	NQL52EM-220X	COIL	22uH M	
CN1001	NNZ0132-001	MEMORY CARD CONNECTOR		
CN1002	NNZ0119-001	CF CARD CONNE		
K1001	NQR0413-002X	FERRITE BEADS		
K1002	NQR0413-002X	FERRITE BEADS		
K1003	NQR0413-002X	FERRITE BEADS		
K1004	NQR0413-002X	FERRITE BEADS		
K1005	NQR0413-002X	FERRITE BEADS		
K1401	NQR0413-002X	FERRITE BEADS		
K1501	NQR0413-002X	FERRITE BEADS		
K2001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K2002	NQR0413-002X	FERRITE BEADS		
K2003	NQR0413-002X	FERRITE BEADS		
K2004	NQR0413-002X	FERRITE BEADS		
K2201	NQR0413-002X	FERRITE BEADS		
X1001	NAX0587-001X	CXO	54.0000MHz	

LED P.W. BOARD ASS'Y (SFL-8702A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC8752	GP1UM261RKVF	IR DETECT UNIT		
Q8701	UN2212-X	DIGI TRANSISTOR		
Q8702	UN2110-X	DIGI TRANSISTOR		
Q8703	UN2110-X	DIGI TRANSISTOR		
Q8704	UN2110-X	DIGI TRANSISTOR		
Q8705	UN2110-X	DIGI TRANSISTOR		
Q8706	UN2110-X	DIGI TRANSISTOR		
Q8707	UN2110-X	DIGI TRANSISTOR		
Q8708	UN2212-X	DIGI TRANSISTOR		
Q8709	UN2212-X	DIGI TRANSISTOR		
Q8712	UN2212-X	DIGI TRANSISTOR		
Q8713	UN2212-X	DIGI TRANSISTOR		
D8702	SEL5E20C-T	LED	POWER	
D8703	SEL5920A-T	LED	PROGRAM/TIMER	
D8705	SELU5E20C-T	LED	ILLUMINATION	
D8706	MA8068-X	Z DIODE		
D8707	MA8068-X	Z DIODE		
D8712	MA8068-X	Z DIODE		
D8713	MA8068-X	Z DIODE		
C8752	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
R8711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8712	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8713	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8715	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8722	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8723	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R8724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

POWER P.W. BOARD ASS'Y (SFL-9041A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC9201	MIP2C20MSSCF	IC		
IC9501	F9222L-F219	IC		
⚠IC9502	FA5500AN-W	IC		
⚠IC9551	UTCTL431-T	IC		
Q9001	2SC3928A/QR/-X	TRANSISTOR		
Q9002	2SC3928A/QR/-X	TRANSISTOR		
Q9221	2SA1530A/QR/-X	TRANSISTOR		
Q9222	2SC3928A/QR/-X	TRANSISTOR		
Q9501	2SK3522-01-F1	POWER MOS FET		
Q9502	2SC3928A/QR/-X	TRANSISTOR		
Q9503	2SC3928A/QR/-X	TRANSISTOR		
Q9504	UN2213-X	DIGI TRANSISTOR		
Q9505	UN2212-X	DIGI TRANSISTOR		
Q9506	UN2212-X	DIGI TRANSISTOR		
Q9507	2SB1188/QR/-W	TRANSISTOR		
Q9508	UN2212-X	DIGI TRANSISTOR		
Q9531	2SC3928A/QR/-X	TRANSISTOR		
Q9532	2SB1188/QR/-W	TRANSISTOR		
Q9533	UN2212-X	DIGI TRANSISTOR		
Q9534	UN2213-X	DIGI TRANSISTOR		
Q9535	UN2213-X	DIGI TRANSISTOR		
Q9536	2SA1530A/QR/-X	TRANSISTOR		
Q9537	2SA1530A/QR/-X	TRANSISTOR		
Q9551	UN2212-X	DIGI TRANSISTOR		
Q9552	UN2212-X	DIGI TRANSISTOR		
D9001	D25XB60	BRIDGE DIODE		
D9002	MA111-X	SI DIODE		
D9003	MA111-X	SI DIODE		
D9202	MA8047-X	Z DIODE		
D9203	EG01C-T2	SI DIODE		
D9204	D1FL20U-X	SI DIODE		
D9205	UTCTL431-T	IC		
D9206	EC21QS10-X	SB DIODE		
D9208	D1FL20U-X	SI DIODE		
D9212	EM1A-LFF4	SI DIODE		
D9213	EM1A-LFF4	SI DIODE		
D9214	EM1A-LFF4	SI DIODE		
D9215	MA8330/M/-X	Z DIODE		
D9216	MA8330/M/-X	Z DIODE		
D9221	MA8024-X	Z DIODE		
D9501	YG972S6R	SI DIODE		
D9502	D1FL20U-X	SI DIODE		
D9503	MA111-X	SI DIODE		
D9504	MA111-X	SI DIODE		
D9505	D1FL20U-X	SI DIODE		
D9506	MA111-X	SI DIODE		
D9507	MA8100/M/-X	Z DIODE		
D9508	MA111-X	SI DIODE		
D9531	D1FS4-X	SB DIODE		
D9532	MA111-X	SI DIODE		
D9533	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D9534	SD883-04-X	IC		
D9535	PTZ27B-X	Z DIODE		
D9536	PTZ27B-X	Z DIODE		
D9537	1SS355-X	SI DIODE		
D9550	FCH20A10	SB DIODE		
D9551	FCH20A10	SB DIODE		
D9552	FCH20A10	SB DIODE		
D9553	FCH20A10	SB DIODE		
⚠C9001	QFZ9072-105	MM CAPACITOR	1uF AC250V K	
⚠C9002	QFZ9072-105	MM CAPACITOR	1uF AC250V K	
⚠C9003	QCZ9071-471	C CAPACITOR	470pF AC400V K	
⚠C9004	QCZ9071-471	C CAPACITOR	470pF AC400V K	
⚠C9006	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9007	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9008	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9009	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
C9204	QEHQ2GM-226	E CAPACITOR	22uF 400V M	
C9205	QFP32JK-222	PP CAPACITOR	2200pF 630V K	
C9206	QEHR1HM-105Z	E CAPACITOR	1uF 50V M	
C9207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9208	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
⚠C9209	QCZ9071-471	C CAPACITOR	470pF AC400V K	
C9210	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9211	QECR1CM-477Z	E CAPACITOR	470uF 16V M	
C9212	QEHR1AM-337Z	E CAPACITOR	330uF 10V M	
C9219	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C9221	QEHR1HM-226Z	E CAPACITOR	22uF 50V M	
C9501	QEZ0739-337	E CAPACITOR	330uF	
C9502	QCZ0340-331	C CAPACITOR	330pF 2kV K	
C9503	QFZ0231-225	MPP CAPACITOR	2.2uF	
C9504	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9505	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9506	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C9507	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C9508	QEHR1VM-476Z	E CAPACITOR	47uF 35V M	
C9509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9510	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9511	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	
C9512	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9531	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C9532	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C9533	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C9534	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9535	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9536	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9537	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C9538	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	
C9539	QEHR1HM-335Z	E CAPACITOR	3.3uF 50V M	
C9540	QFZ0230-563	MPP CAPACITOR	0.056uF	
C9541	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
⚠C9542	QCZ9071-102	C CAPACITOR	1000pF AC400V M	
C9551	QECQ1VM-128	E CAPACITOR	1200uF 35V M	

⚠Ref No.	Part No.	Part Name	Description Local
C9552	QECQ1VM-128	E CAPACITOR	1200uF 35V M
C9553	QECQ1VM-128	E CAPACITOR	1200uF 35V M
C9562	NCB11HK-104X	C CAPACITOR	0.1uF 50V K
⚠R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
R9002	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R9003	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9004	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R9005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
⚠R9006	QRZ0121-200	UNF WW RESISTOR	20Ω 5W J
R9201	NRS12BJ-563W	MG RESISTOR	56kΩ 1/2W J
R9202	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J
R9203	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
R9204	NRS12BJ-333W	MG RESISTOR	33kΩ 1/2W J
R9205	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K
R9206	NRS12BJ-104W	MG RESISTOR	100kΩ 1/2W J
R9207	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R9208	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J
R9209	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
⚠R9210	QRZ9046-685Z	C RESISTOR	6.8MΩ 1/2W K
R9211	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R9212	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R9213	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R9214	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R9215	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9216	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R9217	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9221	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R9223	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9224	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R9225	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R9226	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R9227	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9230	NRS12BJ-104W	MG RESISTOR	100kΩ 1/2W J
R9231	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9501	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
R9502	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
R9503	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J
R9504	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J
R9505	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J
R9506	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
R9507	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J
R9508	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9509	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9510	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R9511	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
R9512	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
R9513	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
R9514	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D
R9515	NRSA63D-274X	MG RESISTOR	270kΩ 1/16W D
R9516	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J
R9517	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J
R9518	NRS181J-394X	MG RESISTOR	390kΩ 1/8W J
R9519	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J
R9520	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R9521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R9522	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R9523	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9524	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9525	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J
R9526	NRS12BJ-102W	MG RESISTOR	1kΩ 1/2W J
R9527	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9528	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R9529	NRS12BJ-221W	MG RESISTOR	220Ω 1/2W J
R9530	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
R9531	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J
R9532	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9533	NRSA02J-180X	MG RESISTOR	18Ω 1/10W J
R9534	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J
R9535	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J
R9536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9537	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9539	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R9540	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9541	QRT029J-1R0	MF RESISTOR	1Ω 2W J
R9542	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
R9543	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J
R9544	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9545	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R9547	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R9548	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R9549	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9553	NRS12BJ-222W	MG RESISTOR	2.2kΩ 1/2W J
R9554	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9555	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J
R9556	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D
R9557	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
R9558	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R9559	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
R9560	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9561	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9570	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9571	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9572	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J
R9574	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9575	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L9201	QQL26AM-5R6Z	CHOKE COIL	5.6uH M
L9501	QQR1468-001	CHOKE COIL	
L9502	QQR1513-001	CHOKE COIL	
⚠T9201	QQS0363-001	SW TRANSF	
⚠T9501	QQS0347-003	SW TRANSF	
⚠T9502	QQS0347-003	SW TRANSF	
⚠CP9201	QMFZ052-2R0-E	FUSE	2A AC250V
⚠CP9501	QMFZ043-2R0Z-J1	FUSE	2A AC250V
⚠F9001	QMF5AD2-6R3-J1	FUSE	6.3A AC250V
K9201	NQR0499-001X	FERRITE BEADS	
K9502	QQR0621-002Z	FERRITE BEADS	
K9503	QQR0621-002Z	FERRITE BEADS	
K9552	NQR0499-002X	FERRITE BEADS	
K9553	NQR0499-002X	FERRITE BEADS	
K9554	NQR0499-002X	FERRITE BEADS	
K9555	NQR0499-002X	FERRITE BEADS	
K9556	NQR0499-002X	FERRITE BEADS	
K9557	NQR0499-002X	FERRITE BEADS	
⚠LF9001	QQR1655-001	LINE FILTER	
⚠LF9002	QQR1281-005	LINE FILTER	
⚠LF9003	QQR1654-001	LINE FILTER	
⚠PC9201	PS2581AL2/QW/-W	PHOTO COUPLER	
⚠PC9202	PS2581AL2/QW/-W	PHOTO COUPLER	
⚠PC9501	PS2581AL2/QW/-W	PHOTO COUPLER	
⚠PC9502	PS2581AL2/QW/-W	PHOTO COUPLER	
⚠PC9503	PS2581AL2/QW/-W	PHOTO COUPLER	
⚠RY9001	QSK0162-001	RELAY	
⚠RY9002	QSK0162-001	RELAY	
⚠VA9001	QAF0060-621	VARISTOR	620V

DC-DC P.W. BOARD ASS'Y (SFL-9141A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
IC9601	MP1593DN-X	IC	
IC9602	BD9300F-X	IC	
IC9603	LM393DR-X	IC	
IC9851	BA09FP-X	IC	
IC9852	BA09FP-X	IC	
Q9601	2SC3928A/QR/-X	TRANSISTOR	
Q9650	2SC5734K/QR/-X	TRANSISTOR	
Q9651	2SC3928A/QR/-X	TRANSISTOR	
Q9652	RSS075P03-X	MOS FET	
Q9904	2SB1188/QR/-W	TRANSISTOR	
Q9905	UN2213-X	DIGI TRANSISTOR	
D9601	EC30HA04-X	SB DIODE	
D9602	MA111-X	SI DIODE	
D9603	MA8030/H/-X	Z DIODE	
D9604	PTZ6.8B-X	Z DIODE	
D9605	EC30HA04-X	SB DIODE	
D9606	EC30HA04-X	SB DIODE	
D9651	EA60QC03L-X	SB DIODE	
D9652	1SS355-X	SI DIODE	
D9654	PTZ6.8B-X	Z DIODE	
D9655	MA111-X	SI DIODE	
D9681	UDZS9.1B-X	Z DIODE	
D9682	MA111-X	SI DIODE	
C9601	NCJ41HK-335X-U	CHIP C CAPACITO	
C9602	NCJ41HK-335X-U	CHIP C CAPACITO	
C9603	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9604	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9605	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9606	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C9607	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C9608	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C9610	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C9651	NCJ10JM-226X-U	CHIP C CAPACITO	
C9652	NCB31CK-333X	C CAPACITOR	0.033uF 16V K
C9653	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C9654	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C9655	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C9657	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C9658	NBZ0017-106X	SP E CAPACITOR	10uF 25V M

⚠Ref No.	Part No.	Part Name	Description	Local
C9659	QCZ0397-106Z	C CAPACITOR	10uF 25V M	
C9660	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M	
C9661	QCZ0396-226Z	C CAPACITOR	22uF 16V M	
C9662	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M	
C9664	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	
C9681	NEHM1HM-105X	E CAPACITOR	1uF 50V M	
C9682	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C9683	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C9684	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C9851	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9852	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9853	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9854	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9911	NBZ0017-106X	SP E CAPACITOR	10uF 25V M	
C9912	NBZ0017-106X	SP E CAPACITOR	10uF 25V M	
C9960	QFVC1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
R9601	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9603	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R9604	NRVA02D-473X	CMF RESISTOR	47kΩ 1/10W D	
R9605	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D	
R9606	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9607	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9608	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9609	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R9610	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9611	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9651	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9652	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R9653	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R9654	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R9655	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9656	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R9657	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9658	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9659	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R9660	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R9661	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R9662	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9663	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9665	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R9666	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D	
R9667	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	
R9669	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9670	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9681	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J	
R9682	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	
R9683	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9684	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	
R9685	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R9686	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	
R9901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9903	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9909	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9924	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9925	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9926	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
L9602	NQLC8CM-150X	COIL	15uH M	
L9652	QQR1432-001	CHOKE COIL		
L9653	NQR0562-002X	CHOKE COIL		

SUB POWER P.W. BOARD ASS'Y (SFL-9705A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC9001	STR-W6765-F5	IC		
IC9051	TL431/A/-T	IC		
D9001	MTZJ33B-T2	Z DIODE		
D9004	FR105GT-T3	SI DIODE		
D9005	1SS133-T2	SI DIODE		
D9006	FR105GT-T3	SI DIODE		
D9008	SARS01-T2	SI DIODE		
D9009	SARS01-T2	SI DIODE		
D9011	1SS133-T2	SI DIODE		
D9021	D2SBA60	BRIDGE DIODE		
D9022	FR105GT-T3	SI DIODE		
D9023	1SS133-T2	SI DIODE		
D9051	RU3AM-LFC4	SI DIODE		
D9053	FMX-22S	SI DIODE		
D9054	FR105GT-T3	SI DIODE		
D9055	MTZJ33B-T2	Z DIODE		
D9056	RU3AM-LFC4	SI DIODE		
D9071	RU3AM-LFC4	SI DIODE		

⚠Ref No.	Part No.	Part Name	Description	Local
C9001	QEZ0169-337	E CAPACITOR	330uF	
C9002	QFP32JK-332	PP CAPACITOR	3300pF 630V K	
C9003	QCZ0340-471	C CAPACITOR	470pF 2kV K	
C9004	QCS31HJ-471Z	C CAPACITOR	470pF 50V J	
C9006	QCB31HK-152Z	C CAPACITOR	1500pF 50V K	
C9008	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C9010	QEHR1HM-335Z	E CAPACITOR	3.3uF 50V M	
C9011	QEHR1HM-226Z	E CAPACITOR	22uF 50V M	
C9012	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
⚠C9024	QFZ9075-224	MPP CAPACITOR	0.22uF AC275V M	
C9051	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9054	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9055	QEHR2AM-106Z	E CAPACITOR	10uF 100V M	
C9057	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C9060	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9061	QEHR1EM-477Z	E CAPACITOR	470uF 25V M	
C9072	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9073	QEHR1HM-105Z	E CAPACITOR	1uF 50V M	
C9076	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
C9078	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
⚠C9901	QCZ9079-471	C CAPACITOR	470pF AC250V K	
R9001	QRK126J-221X	UNF C RESISTOR	220Ω 1/2W J	
R9002	QRX01GJ-R39	MF RESISTOR	0.39Ω 1W J	
R9003	QRX01GJ-R82	MF RESISTOR	0.82Ω 1W J	
R9004	QRL029J-473	OMF RESISTOR	47kΩ 2W J	
R9006	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J	
R9008	QRE121J-564Y	C RESISTOR	560kΩ 1/2W J	
R9009	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R9010	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R9011	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R9012	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9021	QRF074K-3R3	UNF WW RESISTOR	3.3Ω 7W K	
R9022	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J	
R9023	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J	
R9024	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R9050	QRG01GJ-821	OMF RESISTOR	820Ω 1W J	
R9051	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9053	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R9055	QRA14CF-1802Y	CMF RESISTOR	18kΩ 1/4W F	
R9057	QRA14CF-3301Y	CMF RESISTOR	3.3kΩ 1/4W F	
R9059	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9060	QRL029J-152	OMF RESISTOR	1.5kΩ 2W J	
R9071	QRG01GJ-821	OMF RESISTOR	820Ω 1W J	
L9056	QQL01BK-101Z	PEAKING COIL	100uH K	
⚠T9001	QQS0341-001	SW TRANSF		
CN900D	WJK0050-008A-E	E-SI C WIRE C-C		
⚠CP9001	QMFZ043-5R0Z-J1	FUSE	5A AC250V	
⚠CP9071	QMFZ034-5R0Z-J1	FUSE	5A 125V	
⚠CP9072	QMFZ034-5R0Z-J1	FUSE	5A 125V	
⚠CP9073	ICP-N50-T	IC PROTECTOR	2.0A	
⚠CP9074	ICP-N70-T	IC PROTECTOR	2.5A	
K9051	QQR0621-002Z	FERRITE BEADS		
K9071	QQR0621-002Z	FERRITE BEADS		
K9075	QQR0621-002Z	FERRITE BEADS		
⚠PC9001	PS2581AL1/QW/	PHOTO COUPLER		

DIGITAL P.W. BOARD ASS'Y (SFL0D151A-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC6001	JCC5060	IC		
IC6002	SN74LVC1G08V-X	IC		
IC6011	SN74CBQ16211G-X	IC		
IC6012	SN74CBQ3306AU-X	IC		
IC6013	SN74CBQ3306AU-X	IC		
IC6101	EDD1232AAFA-6B	IC		
IC6102	LP2996MR-X	IC		
IC6250	UPC5702GS-027-X	IC		
IC6251	R1170H331B-X	IC		
IC6401	ISL98001CQZ-140	IC		
IC6402	R1170H331B-X	IC		
IC6501	THC63LVD1023	IC		
IC6724	S-80928CLNB-G-W	IC		
IC7033	CD74HC4094PW-X	IC		
IC7036	ADC081S021CIS-X	IC		
IC7201	MBV160-40FH96S	IC(MICRO C ROM)	(SERVICE)	
IC7203	M12L16161A-7TG	IC		
IC7204	S-80928CLNB-G-W	IC		
IC7205	SN74LV00APW-X	IC		
IC7601	M306V7MG-146FP	IC(MCU)		
IC7602	ATF16-40FH96S	IC	(SERVICE)	
IC7603	SN74AHCT1G08V-X	IC		
IC7604	SN74LVC1G04V-X	IC		
IC7605	MM1673XN-X	IC		

⚠Ref No.	Part No.	Part Name	Description	Local
IC7606	MM1673XN-X	IC		
IC9001	MP2263DN-C053-X	IC		
IC9101	MM1662FT-X	IC		
IC9201	MP2263DN-C053-X	IC		
IC9301	MM1701CH-X	IC		
Q6201	2SA1530A/QR/-X	TRANSISTOR		
Q6202	2SA1530A/QR/-X	TRANSISTOR		
Q6203	2SA1022/BC/-X	TRANSISTOR		
Q6204	2SA1022/BC/-X	TRANSISTOR		
Q6205	2SA1022/BC/-X	TRANSISTOR		
Q6206	2SA1022/BC/-X	TRANSISTOR		
Q6211	2SC3837K/NP/-X	TRANSISTOR		
Q6212	2SC3837K/NP/-X	TRANSISTOR		
Q6213	2SC3837K/NP/-X	TRANSISTOR		
Q6214	2SC3837K/NP/-X	TRANSISTOR		
Q6250	2SC3928A/QR/-X	TRANSISTOR		
Q6251	2SC3928A/QR/-X	TRANSISTOR		
Q6501	2SC3928A/QR/-X	TRANSISTOR		
Q6502	2SC3928A/QR/-X	TRANSISTOR		
Q7030	UN2213-X	DIGI TRANSISTOR		
Q7032	UN2113-X	TRANSISTOR		
Q7033	UN2113-X	TRANSISTOR		
Q7034	UN2113-X	TRANSISTOR		
Q7035	UN2113-X	TRANSISTOR		
Q7201	2SC3928A/QR/-X	TRANSISTOR		
Q7501	UN2213-X	DIGI TRANSISTOR		
Q9501	UN2213-X	DIGI TRANSISTOR		
Q9502	2SC3928A/QR/-X	TRANSISTOR		
Q9503	2SC3928A/QR/-X	TRANSISTOR		
D6052	MA111-X	SI DIODE		
D7201	RB501V-40-X	SB DIODE		
D7502	MA111-X	SI DIODE		
D9001	EC30HA03L-X	SB DIODE		
D9002	EC30HA03L-X	SB DIODE		
D9003	PTZ3.9B-X	Z DIODE		
D9201	EC30HA03L-X	SB DIODE		
D9202	EC30HA03L-X	SB DIODE		
D9203	PTZ3.9B-X	Z DIODE		
D9501	MA111-X	SI DIODE		
D9502	MA111-X	SI DIODE		
C6002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6051	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C6052	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C6053	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6055	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6103	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6107	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6112	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6113	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6114	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6116	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6117	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6118	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6119	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6121	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6122	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	
C6123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6124	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	
C6125	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6126	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6128	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6130	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6132	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6133	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	
C6134	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6135	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6139	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6218	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6236	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6237	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6238	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6239	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6241	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6242	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6243	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6244	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6245	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6246	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6247	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6248	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6249	NCB31AK-105X	C CAPACITOR	1uF 10V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C6250	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6252	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6253	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6254	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6255	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6260	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6261	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6262	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6263	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6268	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6270	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6271	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6272	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6273	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6274	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6276	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6277	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6278	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6279	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6280	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6282	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6283	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6284	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6285	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6286	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6288	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6289	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6290	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6291	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6293	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6294	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C6295	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C6296	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6297	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6402	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6403	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6406	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6409	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6410	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6412	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6413	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6416	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6417	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6419	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6420	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6422	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6423	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6424	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6425	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6428	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6429	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6430	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6431	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6432	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6433	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6434	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6435	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6436	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6437	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6438	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6439	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6440	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6441	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6445	NEX60GM-337X	E CAPACITOR	330uF 4V M	
C6501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6510	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6514	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6520	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6532	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6601	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠Ref No.	Part No.	Part Name	Description Local
C6610	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6611	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6612	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6613	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6614	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6615	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6616	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6617	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6618	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6619	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6620	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6621	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6622	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6623	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6624	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6625	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6626	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6628	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6629	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6630	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6631	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6632	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6633	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6634	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6635	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6636	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6637	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6638	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6639	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6640	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6641	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6643	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6644	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6645	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6656	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6657	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6658	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6659	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6660	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6661	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6677	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6678	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6679	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6680	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6681	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6682	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6683	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6684	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6685	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6686	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6687	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6688	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6689	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6690	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6691	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6692	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6693	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6694	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6695	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6696	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6697	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6698	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6699	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C6701	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C6723	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6724	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C6901	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C6902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6903	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6904	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6905	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6907	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6908	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6910	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6911	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6912	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6913	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6914	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6915	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6916	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6917	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6918	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6919	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6921	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6922	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6923	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6924	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6925	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6926	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C6927	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6928	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7039	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C7040	NCB11AK-106X	C CAPACITOR	10uF 10V K
C7044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7051	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7053	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7055	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7056	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7057	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7058	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7059	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7061	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7062	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7064	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7065	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7066	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7067	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7068	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7073	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7205	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7208	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7209	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7211	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C7212	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7213	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7214	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C7215	QCS31HJ-330Z	C CAPACITOR	33pF 50V J
C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C7506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7514	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7517	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7601	NCB11CK-105X	C CAPACITOR	1uF 16V K
C7602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7604	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C7605	NCB31HK-221X	C CAPACITOR	220pF 50V K
C7606	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C7607	NCB31HK-681X	C CAPACITOR	680pF 50V K
C7608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7609	NCB31HK-681X	C CAPACITOR	680pF 50V K
C7610	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C7611	NDC31HJ-221X	C CAPACITOR	220pF 50V J
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C7615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7618	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C7619	NCB11AK-106X	C CAPACITOR	10uF 10V K
C7620	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C7621	NCB11AK-106X	C CAPACITOR	10uF 10V K
C7627	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C7629	NCB11AK-106X	C CAPACITOR	10uF 10V K
C7630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7631	NCB31AK-224X	C CAPACITOR	0.22uF 10V K
C7632	NCB31AK-224X	C CAPACITOR	0.22uF 10V K
C9001	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C9003	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9006	NDC31HJ-120X	C CAPACITOR	12pF 50V J
C9007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9101	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C9103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C9201	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C9203	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9206	NDC31HJ-120X	C CAPACITOR	12pF 50V J

⚠Ref No.	Part No.	Part Name	Description Local
C9207	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C9208	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9302	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C9303	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9304	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
C9306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9501	NCB31CK-105X	C CAPACITOR	1uF 16V K
C9502	NCB31CK-105X	C CAPACITOR	1uF 16V K
R6002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6009	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6020	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6055	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J
R6057	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6058	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6059	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6064	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6065	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6066	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6068	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J
R6072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6101	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6102	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6103	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6107	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R6108	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R6109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6110	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6111	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6112	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6113	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6114	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6115	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6116	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6117	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6118	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6119	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6120	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6121	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6122	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R6127	NRSA63J-1R5X	MG RESISTOR	1.5Ω 1/16W J
R6141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6217	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6230	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6231	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6232	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6235	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6236	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6239	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6242	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6245	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6248	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6249	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R6251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6253	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6254	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6255	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6256	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R6257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6258	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6259	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6260	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6261	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6262	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6263	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6264	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6265	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6266	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R6267	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6268	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6269	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6270	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6271	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6274	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6275	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6276	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6279	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6280	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6281	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6282	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6283	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6284	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6285	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6286	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6287	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6288	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6289	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6291	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6292	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6294	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6295	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6296	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6299	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6401	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6402	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6403	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R6404	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6408	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6410	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R6411	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R6412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6415	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6416	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6417	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6419	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R6421	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R6423	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6424	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R6425	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6426	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6427	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6514	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6531	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6534	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6548	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6554	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6575	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6576	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6607	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6609	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

⚠Ref No.	Part No.	Part Name	Description Local
R6712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6713	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6731	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6921	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6922	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6924	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7032	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R7033	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7041	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R7044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7060	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R7061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7064	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7065	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7066	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R7067	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R7068	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7077	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R7078	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R7081	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7083	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7084	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R7085	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R7086	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7087	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7089	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7090	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7091	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7092	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7093	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7095	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7097	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7098	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7099	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7100	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7125	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7131	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7157	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7170	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7172	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7173	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7174	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7175	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7176	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7177	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7178	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7179	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7184	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7202	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7203	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7207	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7215	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7217	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7221	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7223	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7224	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7225	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7229	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7231	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R7232	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R7234	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7235	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7237	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7349	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7350	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7351	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7504	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7605	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R7606	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R7607	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7608	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R7609	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7610	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7612	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R7613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7614	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7618	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7620	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7622	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7623	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7624	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7625	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7627	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7628	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R7629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7632	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7634	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7635	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7649	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7650	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J
R7655	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7656	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R7657	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R7658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9003	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D
R9004	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J
R9005	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9006	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J
R9007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9203	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9206	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9501	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9502	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9503	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R9504	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9506	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R9509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J

⚠Ref No.	Part No.	Part Name	Description	Local
R9510	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
RA6001	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6007	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6008	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6009	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6010	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6011	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6101	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA6102	NRZ0080-220X	NET RESISTOR	22Ω	
RA6103	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA6104	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA6105	NRZ0080-220X	NET RESISTOR	22Ω	
RA6106	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA6107	NRZ0080-220X	NET RESISTOR	22Ω	
RA6108	NRZ0080-220X	NET RESISTOR	22Ω	
RA6109	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA6110	NRZ0080-470X	NET RESISTOR	47Ω	
RA6111	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA6112	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA6113	NRZ0080-470X	NET RESISTOR	47Ω	
RA6114	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA6115	NRZ0080-470X	NET RESISTOR	47Ω	
RA6116	NRZ0080-470X	NET RESISTOR	47Ω	
RA6401	NRZ0080-330X	NET RESISTOR	33Ω 1/16W J	
RA6402	NRZ0080-330X	NET RESISTOR	33Ω 1/16W J	
RA6403	NRZ0080-330X	NET RESISTOR	33Ω 1/16W J	
RA6501	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6502	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6503	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA6504	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6505	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6506	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6541	NRZ0033-0R0W	NET RESISTOR	0Ω	
RA6542	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6543	NRZ0033-0R0W	NET RESISTOR	0Ω	
RA6544	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA6545	NRZ0033-0R0W	NET RESISTOR	0Ω	
RA6546	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RA7202	NRZ0080-473X	NET RESISTOR	47kΩ	
RA7203	NRZ0080-473X	NET RESISTOR	47kΩ	
RA7204	NRZ0080-473X	NET RESISTOR	47kΩ	
RA7205	NRZ0080-473X	NET RESISTOR	47kΩ	
RA7503	NQR0271-004X	EMI FILTER		
RA7601	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA7602	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA7603	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA7605	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA7606	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
L6051	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6102	NQL79GM-220X	COIL	22uH M	
L6103	NQL79GM-220X	COIL	22uH M	
L6105	NQR0489-002X	FERRITE BEADS		
L6254	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6255	NQR0489-002X	FERRITE BEADS		
L6256	NQR0489-002X	FERRITE BEADS		
L6402	NQL79GM-100X	COIL	10uH M	
L6403	NQL79GM-100X	COIL	10uH M	
L6404	NQL79GM-100X	COIL	10uH M	
L6501	NQR0351-001X	FERRITE BEADS		
L6503	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6511	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6512	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6513	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6514	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6516	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6701	NQR0413-003X	FERRITE BEADS		
L6901	NQR0413-003X	FERRITE BEADS		
L6902	NQR0413-003X	FERRITE BEADS		
L6921	NQR0489-002X	FERRITE BEADS		
L6922	NQL79GM-220X	COIL	22uH M	
L6923	NQL79GM-220X	COIL	22uH M	
L6924	NQL79GM-220X	COIL	22uH M	
L6925	NQL79GM-220X	COIL	22uH M	
L7501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L9001	NQLC8CM-150X	COIL	15uH M	
L9201	NQLC8CM-150X	COIL	15uH M	
CN001	QGF0508C1-50W	CONNECTOR	FFC/FPC (1-50)	
CN002	QGF0508C1-40W	CONNECTOR	FFC/FPC (1-40)	
CN110	QGB0603L1-B0	CONNECTOR	B-B (1-110)	
J8501	NNZ0117-001	HDMI CONNECTOR	DIGITAL IN-1	
J8502	NNZ0117-001	HDMI CONNECTOR	DIGITAL IN-2	
K6052	NQR0489-002X	FERRITE BEADS		
K6250	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6261	NQR0489-002X	FERRITE BEADS		
K6262	NQR0489-002X	FERRITE BEADS		
K6263	NQR0489-002X	FERRITE BEADS		
K6264	NQR0489-002X	FERRITE BEADS		
K6265	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6266	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6267	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6268	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6401	NQR0499-001X	FERRITE BEADS		
K6402	NQR0499-001X	FERRITE BEADS		
K6403	NQR0499-001X	FERRITE BEADS		
K6404	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6405	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6921	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7032	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7033	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7034	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7201	NQR0413-002X	FERRITE BEADS		
K7501	NQR0413-002X	FERRITE BEADS		
K7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7601	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
LC6225	NQR0470-007X	EMI FILTER	2200pF 50V +50%-20%	
LC6226	NQR0470-007X	EMI FILTER	2200pF 50V +50%-20%	
LC6501	NQR0479-001X	EMI FILTER		
LC7505	NQR0483-005X	EMI FILTER	100uF 25V Z	
LC9301	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%	
LC9303	NQR0483-005X	EMI FILTER	100uF 25V Z	
LC9305	NQR0483-005X	EMI FILTER	100uF 25V Z	
LC9306	NQR0483-007X	EMI FILTER		
LC9307	NQR0483-005X	EMI FILTER	100uF 25V Z	
X6250	NAX0580-001X	CXO	27.0000MHz	
X7001	NAX0669-001X	CRYSTAL		
X7601	NAX0613-001X	C RESONATOR		

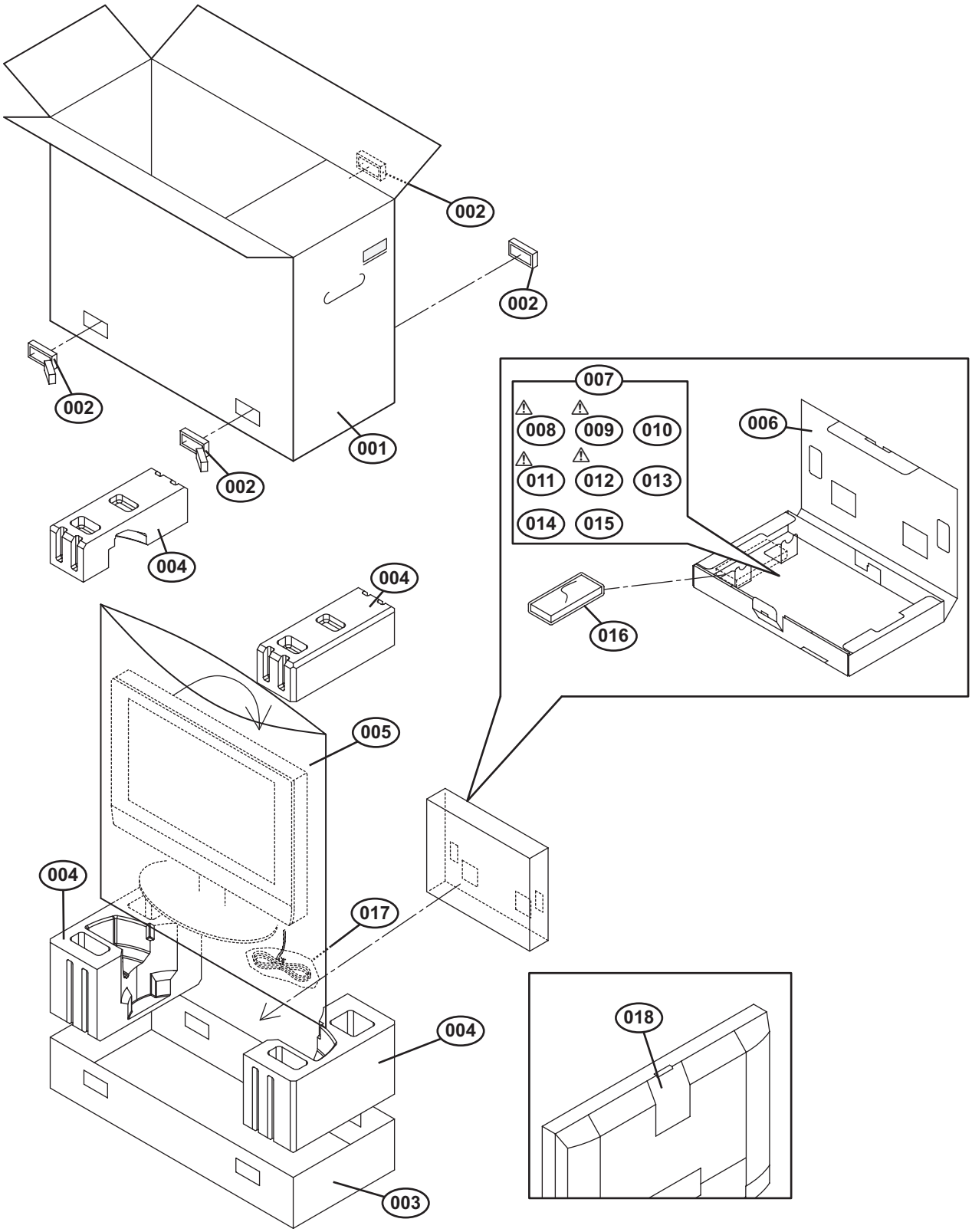
ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2101B-M2)

⚠Ref No.	Part No.	Part Name	Description	Local
⚠MD001	SSD-2101B-M2	ATSC TUNER MODULE PWB		

REMOTE CONTROL UNIT PARTS LIST (RM-C14G-1H)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	UR77EC1403A	BATTERY COVER		

PACKING


002
002
002
002
001
004
004
004
005
004
017
004
003
007
008
009
010
011
012
013
014
015
006
016
018

PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	001	LC21941-001B-A	PACKING CASE	TOP	
	002	LC32958-001A	JOINT	(x4)	
	003	LC21942-001A-A	PACKING CASE	BOTTOM	
	004	LC12626-001A-A	CUSION ASSY	4pcs in 1set	
	005	CP30974-001	POLY BAG		
	006	LC21927-001B-A	ACCESSORY BOX		
	007	QPA02503505P	POLY BAG	25cm x 35cm	
⚠	008	----------	WARRANTY CARD	BT-52006-2Q	
⚠	009	BT-51034-2Q	REGIST. CARD		
	010	----------	BATTERY	R6P/AA(x2)	
⚠	011	LCT1976-001A-A	INST BOOK	English	
⚠	012	LCT1977-001A-A	INST BOOK	French	
	013	QAU0382-002	RF SPLITTER		
	014	QAM0523-003	RF CABLE	30cm(x2)	
	015	LCT1922-001A-A	INST SHEET		
	016	RM-C14G-1H	REMOCON		
	017	QPA01002305	POLY BAG	10cm x 23cm	
	018	LCT1883-001A-A	CAUTION SHEET		

JVC®

LCD Flat Television Users Guide

For Model: LT-40FH96

Illustration of LT-40FH96 and RM-C14G

Important Note:

In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Model Number: _____

Serial Number: _____

LCT1976-001A-A
0905TNH-II-IM

Important Safety Precautions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don’t use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT RECYCLING INFORMATION

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of the materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance:

http://www.eiae.org

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Some pay-per-view programs may be licensed from producers as "view-only" programs. These are copyrighted programs and may not be copied or reproduced for any purpose without the express written permission of the copyright owner.
For best viewing, if your VCR is "ON", turn the TV/VCR switch to the "TV" position.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

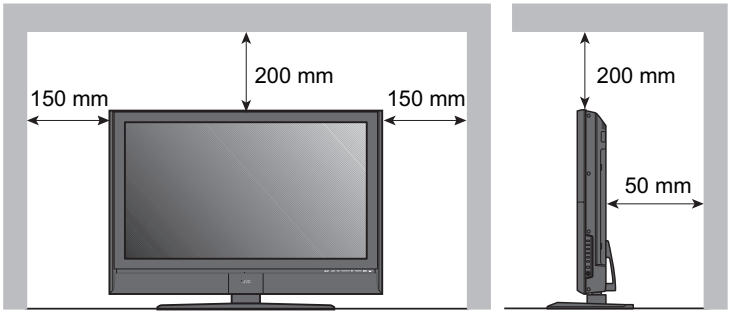
12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

16) Avoid improper installation and never position the unit where good ventilation is impossible. When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.



17) Cautions for installation

— Do not tilt the TV towards the left or right, or towards the back.
— Install the TV in a corner on the floor so as to keep cords out of the way.
— The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling.

FCC Notice:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

WALL MOUNTING

Your panel display can be wall mounted. If you choose to mount it on a wall, an optional mounting plate (model TS-C180B6), and wall mounting bracket (model PRF-100 made by Premier), should be used. Both parts are available from our Parts & Service Center.

You may call 1(800) 882-2345 or visit JVC accessory store at www.jvc.com.

Warnings

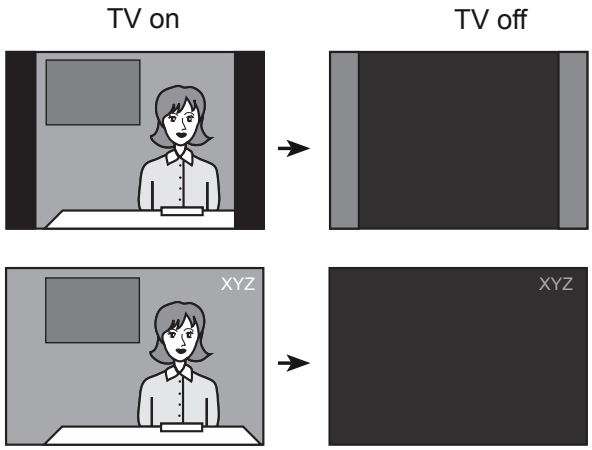
Avoiding Ghost Images

Displaying fixed images for extended periods of time can leave a subtle but temporary ghost image on your screen. To avoid this, mix your viewing pattern.

Examples include, but are not limited to the following:

- Stock-market report bars
- Shopping channel logos and pricing displays
- Video game patterns or scoreboards
- Bright station logos
- Internet web sites or other computer-style images.
- DVD discs, video tapes, laser discs
- Broadcast, cable, satellite channels or digital television tuners/converters.

For example...



Caring for the Cabinet

Normally, light dusting with a soft, non-scratching duster will keep your TV clean.

If you wish to wipe down the television, first unplug it. Then wipe gently with a soft cloth, slightly moistened with water. You can add a few drops of mild liquid detergent to the water to help remove spots of oily dirt.

- DO NOT allow liquid to enter the TV through the ventilation slots.
- DO NOT use strong or abrasive cleaners on the TV.
- DO NOT spray liquids or cleaners directly on the TV's surface.
- DO NOT rub or scrub the TV harshly. Wipe the set gently with a soft cloth.

Caring for the Screen

The screen is treated with an electrostatic-proof coating. When it gets dirty, wipe it gently with a soft cloth. If the screen is very dirty, wipe it down with a cloth dipped in a diluted kitchen cleaner and thoroughly wrung-out. Then wipe immediately after with a clean, dry cloth.

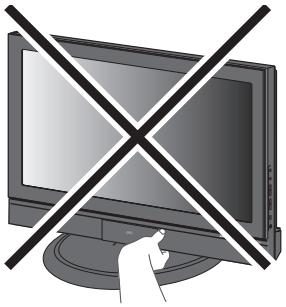
Do not apply alcohol, organic solvents (like acetone), acidic or alkaline cleansers to the screen. These will remove the coating layer and cause discolorations.

Do not push or hit the screen. This could cause scratches on the screen surface and image distortions.

Warnings (Continued...)

How to move the cabinet

Your fingers may become trapped under the TV, causing injuries. Hold the TV at the bottom in the middle, and do not allow the TV to tilt up or down.



The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up or down.

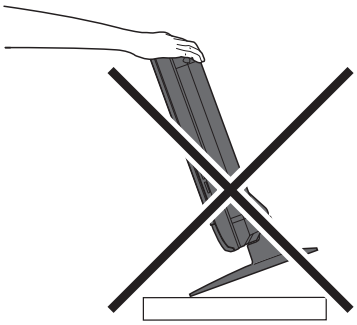


Table of Contents

Important Safety Precautions . 2

Warnings 5

Quick Setup 9

Unpacking your TV 9
TV Models 10
TV Remote Control 11
Getting Started 12
Using the Stand 12
The Remote Control 13
Connecting Your Devices 14
Interactive Plug In Menu 26

Remote Programming 29

Setting CATV, VCR and DVD Codes . . . 29
CATV or Satellite Codes 29
VCR Codes 30
DVD Codes 31
Search Codes 32

Onscreen Menus 33

Using the Guide 33
Onscreen Menu System 34

Initial Setup 36

Auto Tuner Setup 36
Channel Summary 37
V-Chip 39
Set Lock Code 45
Illumination 46
Language 46
Closed Caption 47
Auto Shut Off 49
XDS ID 49
Noise Muting 50
Front Panel Lock 50
V1 Smart Input 51
Video Input Label 51
Position Adjustment 52
Power Indicator 52
Video-1 Monitor Out 52
Digital-In 53
Digital-In Audio 53

Picture Adjust 54

Picture Settings 54
Adjust Picture Settings 54
Color Temperature 54
Color Management 55
Dynamic Gamma 55
Smart Picture 55
Digital VNR 56
MPEG NR 56
Reset 56

Sound Adjust 57

Sound Settings 57
Adjust Sound Settings 57
Reset 57

Clock Timers 58

Set Clock 58
On/Off Timer 59

Button Functions 60

Multi Screen Function 60
Twin 60
Index 61
Freeze 61
Swap 61
Select 61
Power 62
Number Buttons 62
Tune 62
Input 62
TheaterPro D6500K 62
Return+/TV 63
Sound 63
Muting 64
Video Status 64
Natural Cinema 64
Sleep Timer 65
ML/MTS 65
Display 66
C.C. 66
Channel +/- 66
Volume +/- 66
Favorite 67
Aspect 68
Aspect Ratios 69
Menu 69
OK 69
Back 69
TV/CATV Slide Switch 70
VCR/DVD Slide Switch 70
VCR Buttons 70
DVD Buttons 70
Light 70

Table of Contents

Digital Setup 71

Digital Setup 71
Antenna Level 71
Digital Sound 72
Aspect Ratio 72
Cable Card Application 73
i.LINK Auto Play 73
Software Update 73

Digital Button Functions . . . 74

Digital CH D/A (Digital/Analog) 74
Sub Channel 74
i.LINK Menu 75
Controller 75
Device 76
Timer 77
Reservation 77
Timer Edit 78
Guide 79

Media Card Viewer 80

Readable Media Card 80
Supported Card Media 80
How to insert Media Card 81
How to operate Media Card Viewer 82
PHOTO 83
VIDEO 83
FILE 84
Operation Note 85
Specifications for Media Card Viewer . . 86

OSD Information 87

Weak Signal 87
No Program 87
Invalid Signal 87

Cable Card Information 88

Cable Card Connection 88

Appendices 89

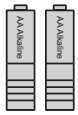
Troubleshooting 89
Warranty 91
Specifications 93
Notes 94

Thank you for your purchase of a JVC LCD Flat Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:

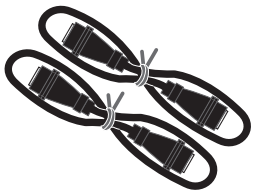
1 Television

1 Remote Control

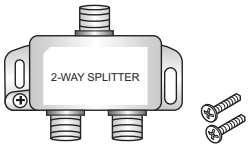
Two AA Batteries



Note: Your television and/or remote control may differ from the examples illustrated here.



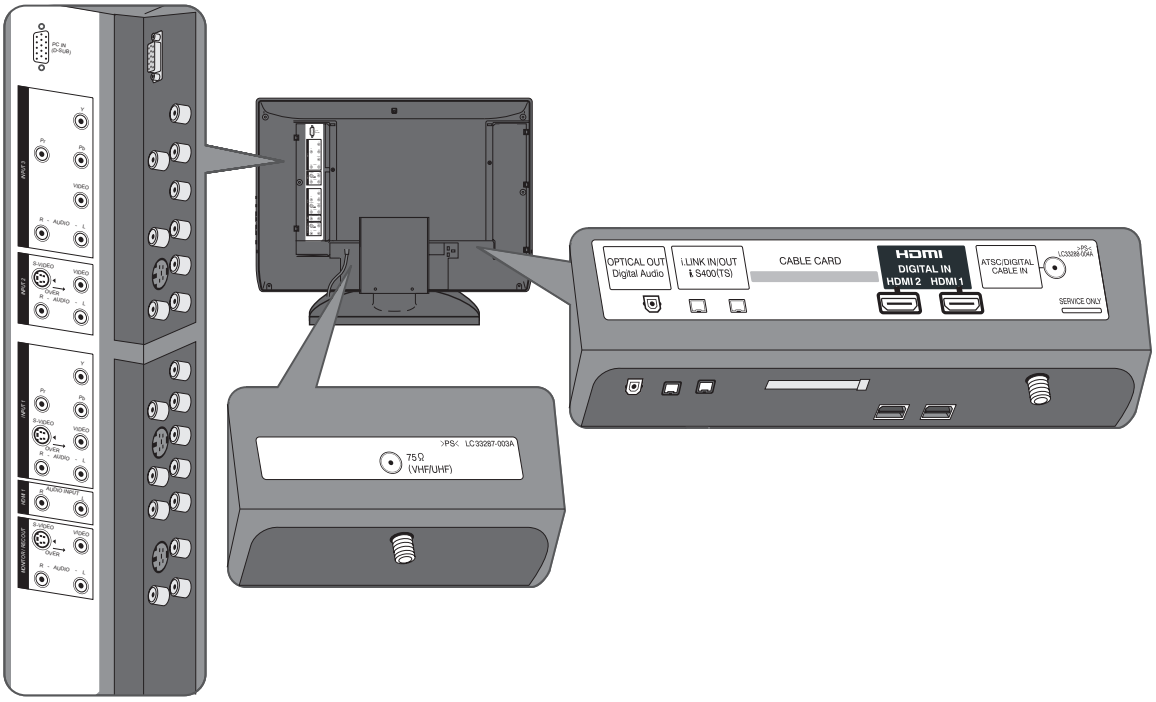
RF Cable × 2



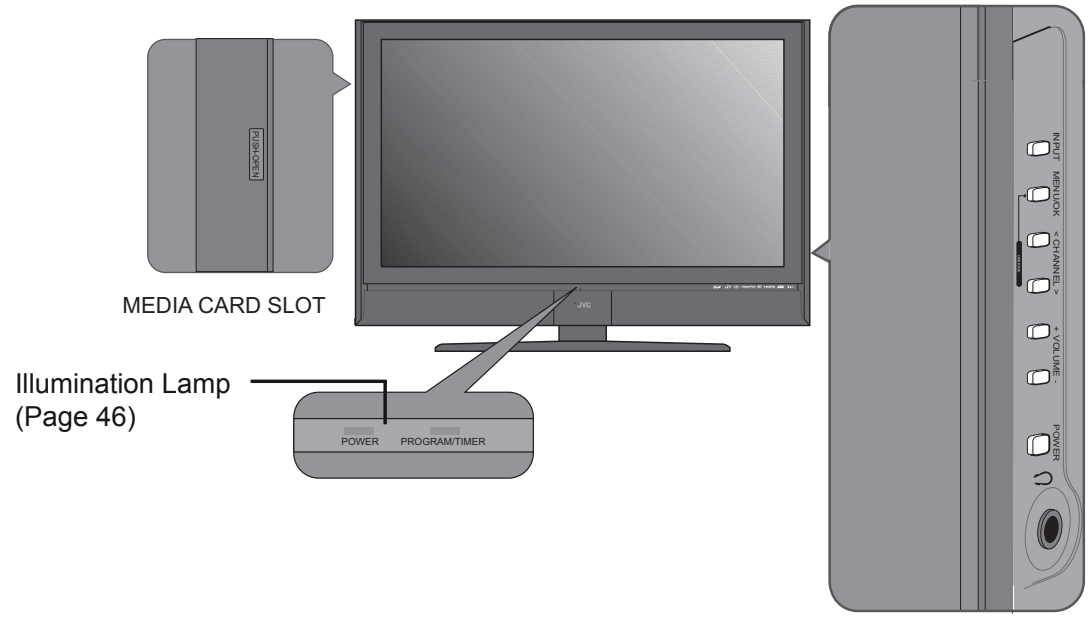
Two Way Splitter x 1

NOTE: Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

Rear Panel Diagram

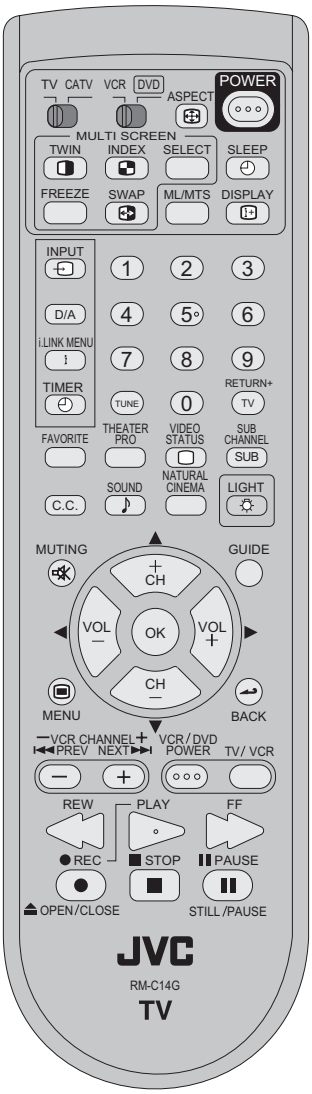


Side Panel Diagram



Note:

- To open the Media Card slot door, gently press the "PUSH-OPEN".



RM-C14G

Notes:

- For information on remote control buttons, see pages 60 - 70 and 74 - 79.
- i.LINK MENU, TIMER, SUB CHANNEL and GUIDE buttons are for digital channels. If your TV is connected to an ATSC antenna or Digital Cable, you can use these buttons.

Getting Started

These quick setup pages will provide you, in four easy steps, with the basic information you need to begin using your new television right away.

If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

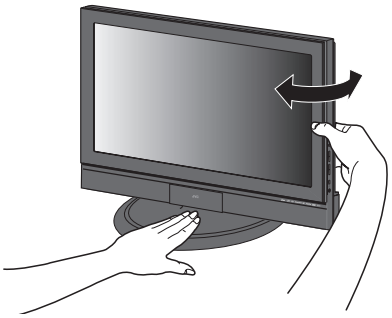
Step 1 - Using the stand

This TV comes with a Table Top Stand already attached.

This stand can be used to adjust the direction of the TV screen 20° to the left or right.

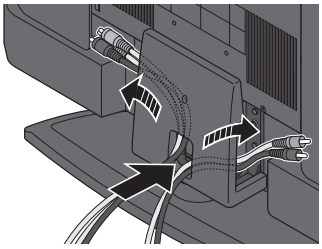
Rotate the TV left or right

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV stand.



Cable Holder

A cable holder which keeps your connection cables tidy is attached on the back of the stand. Gently squeeze the left and right of the cable holder, and pull it to remove it from the stand. After putting the cables in the cable holder, attach it to the back of the stand again.

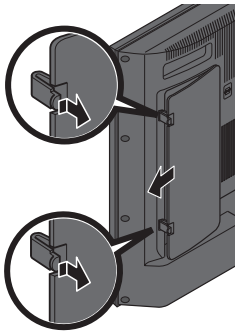


Remove the terminal cover

There are connection terminals behind the cover on the left in the back of the TV. Remove the cover before connecting an antenna or other devices. The cover can be removed by removing the hooks. When replacing the cover, place the side of the cover against the TV and insert the hooks.

Note:

- Leave the terminal cover off if they do not fit properly. Do not force to replace the cover. Doing so may damage the connection cables and cover.

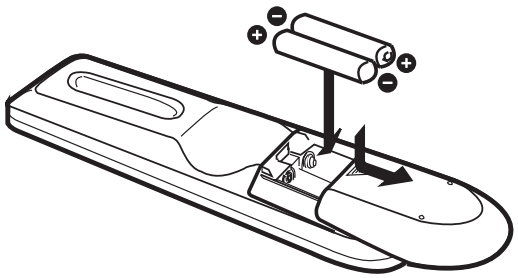


Step 2 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

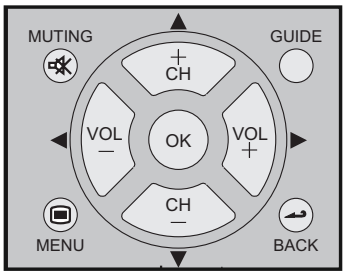
Slide the cover on the back of the remote down towards the bottom of the remote control. Insert two batteries (included) carefully noting the "+" and "–" markings, placing the "–" end in the unit first. Slide the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your VCR, DVD, and/or cable box/satellite receiver may have to be reset. See pages 29 - 32.



Key Feature Buttons

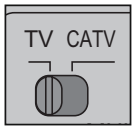
The four key feature buttons at the center of the remote can be used for basic operation of the television. The top and bottom buttons will scan forward and back through the available channels. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH–. The channels will zip by at a rate of five channels per second. The right and left buttons will turn the volume up or down. These buttons are also marked with four arrows and are used with JVC's onscreen menu system. To use the onscreen menus, press the MENU button.

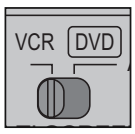


Basic Operation

Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box.
- Slide the VCR/DVD selector switch to VCR to control a VCR. Slide to DVD to control a DVD player. Please see pages 29 to 32 for instructions on programming your remote control to operate a cable box, VCR or DVD player.





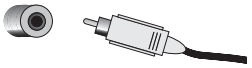
Step 3 - Connecting your devices

To make these connections, you will use plugs like the ones illustrated below.

S-Video Cable

Used to make video connections with S-Video VCRs, Camcorders and DVD players.

Component Cables Composite Cables Audio Cables

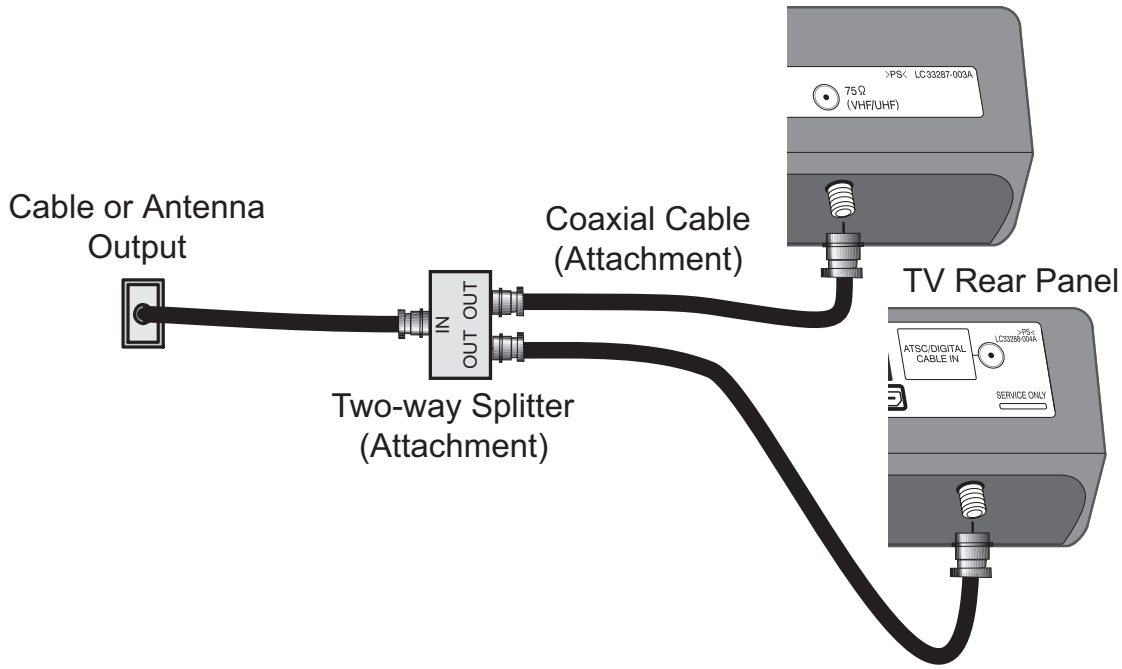


Used to connect audio/video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

Notes:

- These connections are examples.
- After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.
- If you follow these diagrams and the television does not work properly, contact your local cable operator.
- To connect a DVD player, see VCR Connection. A DVD player is optional
- If you have a satellite television system, refer to the satellite TV manual.

No VCR Connection

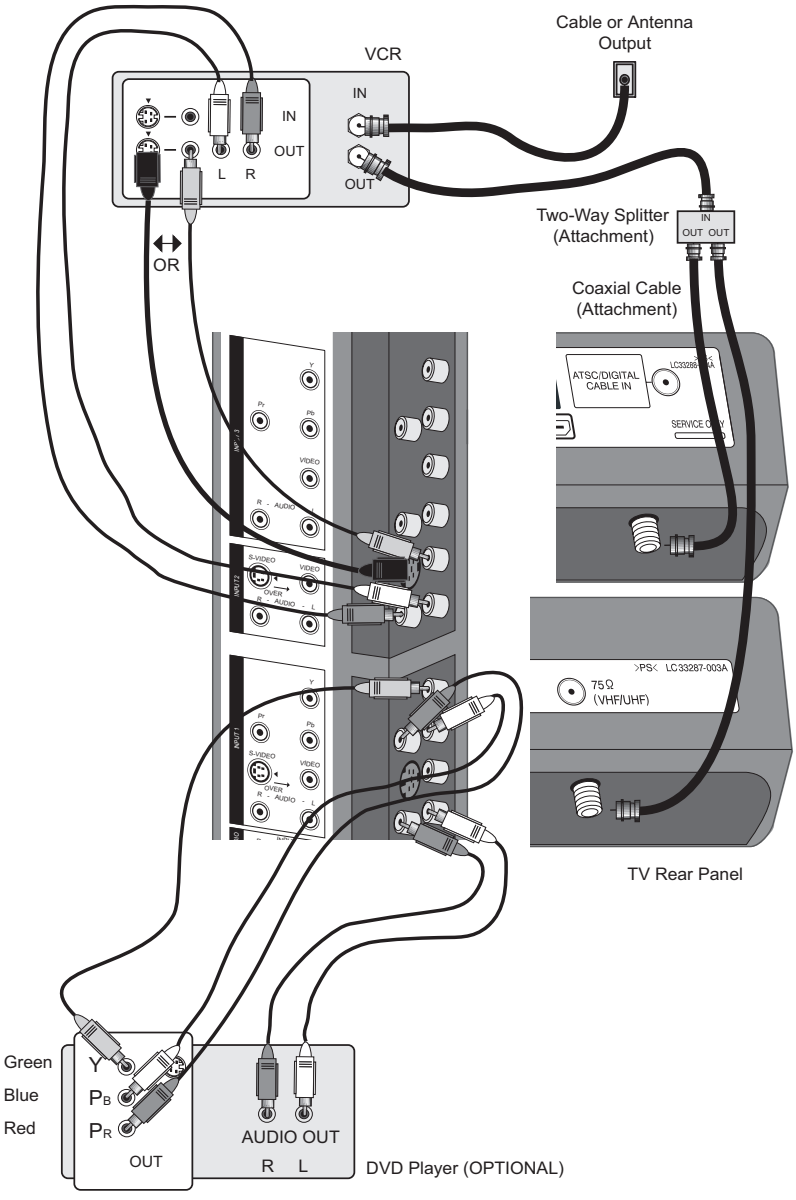


VCR Connection

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- You may also connect the DVD player to Input 1.

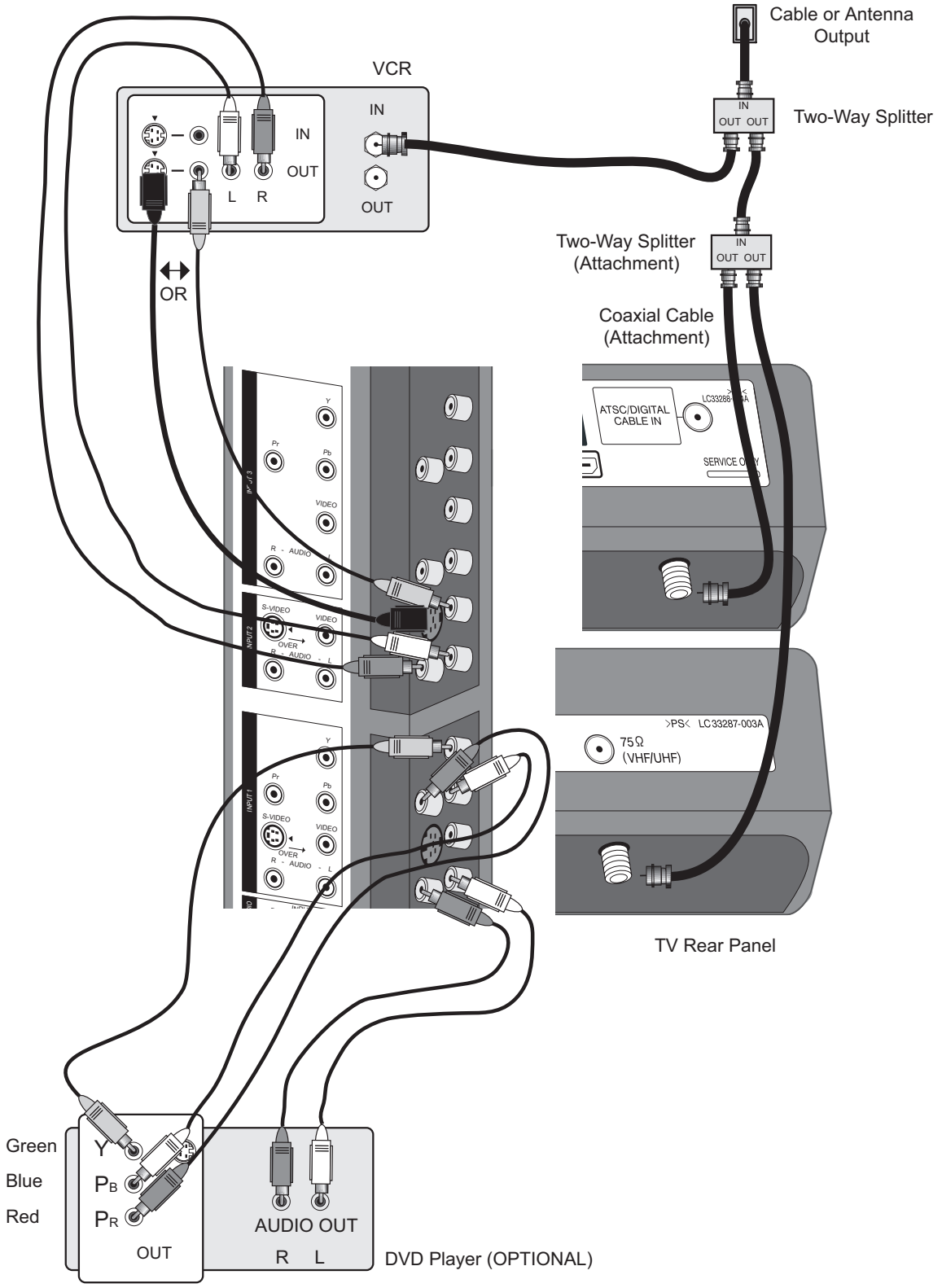
Diagram #1



Note:

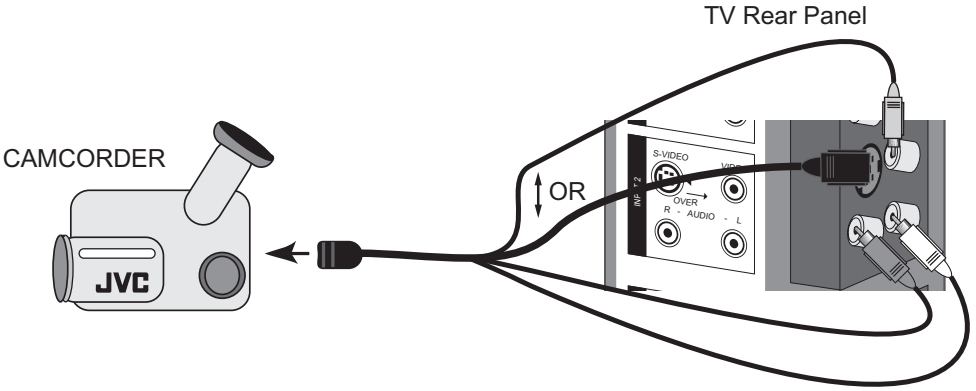
- If this connection setup does not work for you, try the connection setup on page 16.

Diagram #2


Cable or Antenna Output
VCR
IN
OUT
L R
IN
OUT
Two-Way Splitter
IN OUT OUT
Two-Way Splitter (Attachment)
IN OUT OUT
OR
Coaxial Cable (Attachment)
ATSC/DIGITAL CABLE IN
SERVICE ONLY
INPUT 3
INPUT 2
INPUT 1
Y
Pr
Pb
VIDEO
R - AUDIO - L
S-VIDEO
OVER
>PS< LC33287-003A
75Ω (VHF/UHF)
TV Rear Panel
Green
Blue
Red
Y
PB
PR
OUT
AUDIO OUT
R L
DVD Player (OPTIONAL)

Connecting to a Camcorder

You can connect a camcorder to you televison by using the input jacks located on the back of the television.



1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the back of the TV, **OR** connect an S-Video cable from the camcorder to the back of the TV.
2) Connect a white cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the back of the TV.
3) Connect a red cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the back of the TV.

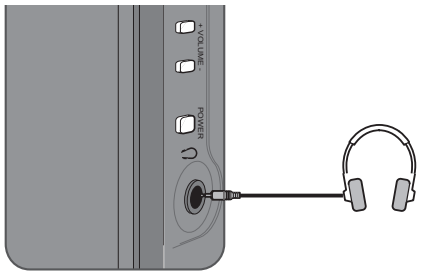
Note:

- If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the LEFT AUDIO IN on the back of the TV.

Headphone Connection

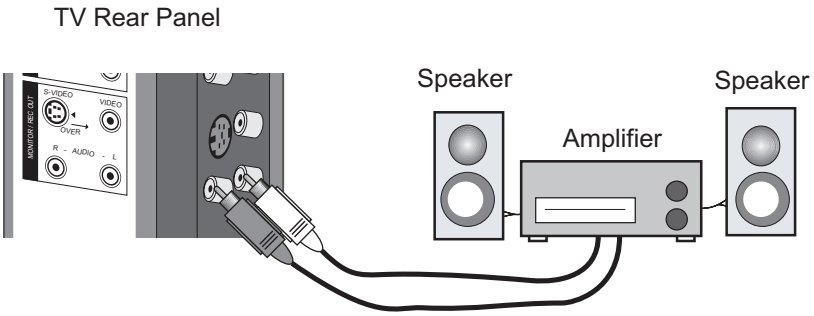
You can connect a pair of headphones to the television using the headphone jack located on the side of the television.

1) Plug a headphone jack into the headphone jack on the television's side panel.



TV Side Panel

Connecting to an External Amplifier

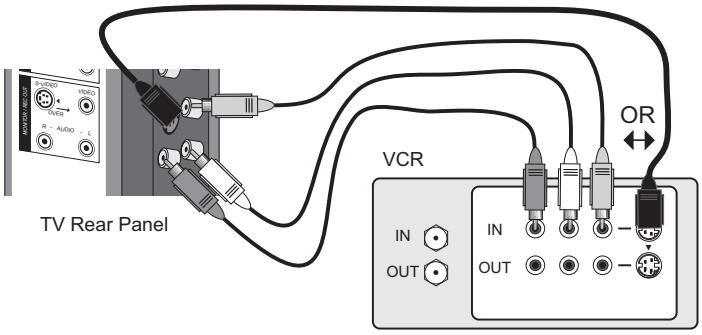


1) Connect a white cable from the LEFT AUDIO OUTPUT on the back of the TV to the LEFT AUDIO INPUT on the amplifier.
2) Connect a red cable from the RIGHT AUDIO OUTPUT on the back of the TV to the RIGHT AUDIO INPUT on the amplifier.

Notes:

- Refer to your amplifier's manual for more information.
- You can use AUDIO OUTPUT for your home theater system.
- DVI analog sound can not be outputted.

Connecting to Monitor/Recording Output Terminal



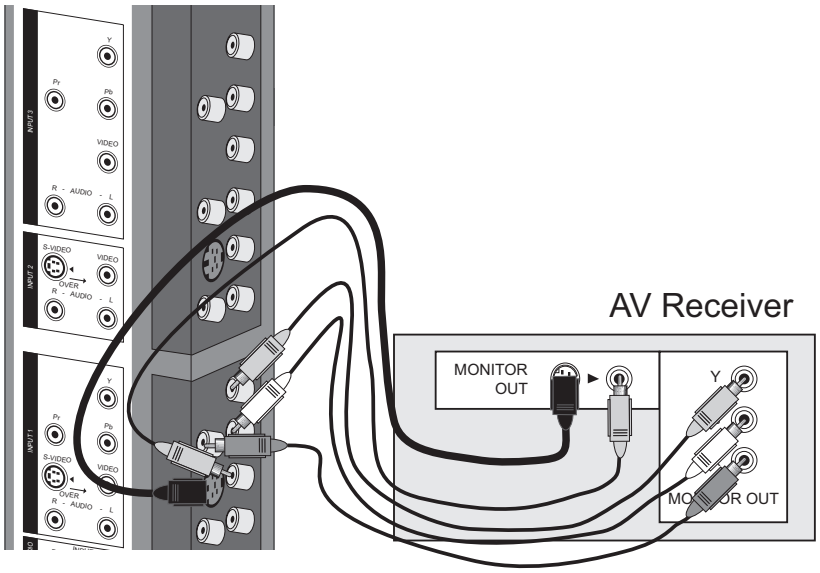
Notes:

- When you make this connection, set the Video-1 Monitor Out menu to ON. See page 52.
- If you are receiving ATSC/Digital Cable signal, it can be outputted to the S-Video output terminal or Video (composite video) terminal.
- If you are receiving Analog TV signal, it can not be outputted to the S-Video output terminal.
- No signal will be outputted through the S-Video output terminal when you are not viewing images coming from the composite video input terminal.
- No signal will be outputted through the Monitor/Recording output terminal when you are viewing images from the component video input.
- If you try and record copyright protected programs using a VCR, you will not be able to record correctly. This is because of the copyright protection system. If you are watching a copyright protected program using a VCR, the picture will be distorted on the TV. This is due to the copyright protection system, and is not a malfunction of your TV.

Connecting to an AV Receiver using your television's V1 Smart Input

By connecting your AV Receiver to your television's V1 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV. This allows you to free up the other input connections so you can connect more devices to your television.

TV Rear Panel



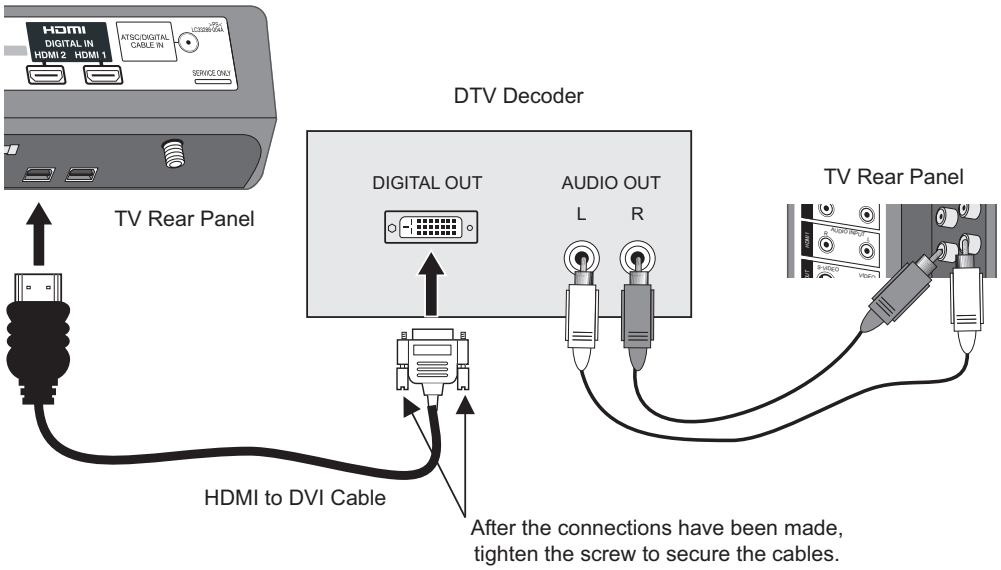
1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT, to the S-Video INPUT-1 on the back of your television.
2) Connect a Yellow Composite Cable from the AV Receiver's MONITOR OUT, into the VIDEO INPUT-1 on the back of your television.
3) Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT, into the Y VIDEO INPUT-1 on the back of your television.
4) Connect a Blue Component Cable from the AV Receiver's P_B MONITOR OUT, into the Pb VIDEO INPUT-1 on the back of your television.
5) Connect a Red Component Cable from the AV Receiver's P_R MONITOR OUT, into the Pr VIDEO INPUT-1 on the back of your television.

Notes:

- Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
- Use your AV Receiver's remote to switch to the different devices you have connected.
- Some AV Receivers may not respond when the V1 Smart Input function is turned on.
- If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V1 Input as the V1 Smart Input. In this case we recommend using the S-Video connection.

Connecting to a Digital TV Receiver

By connecting a Digital TV Receiver, high definition pictures can be displayed on your TV in their digital form.



1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder, to the DIGITAL-IN on the back of your television.
2) Connect a red cable from the DTV decoder RIGHT AUDIO OUT, to the RIGHT AUDIO DIGITAL-IN on the back of your television.
3) Connect a white cable from the DTV decoder LEFT AUDIO OUT, to the LEFT AUDIO DIGITAL-IN on the back of your television.

- The digital-in terminal is not compatible with the picture signal of a personal computer.
- Use a HDMI to DVI cable (commercially available) in order to digitally connect the television with a DTV decoder.

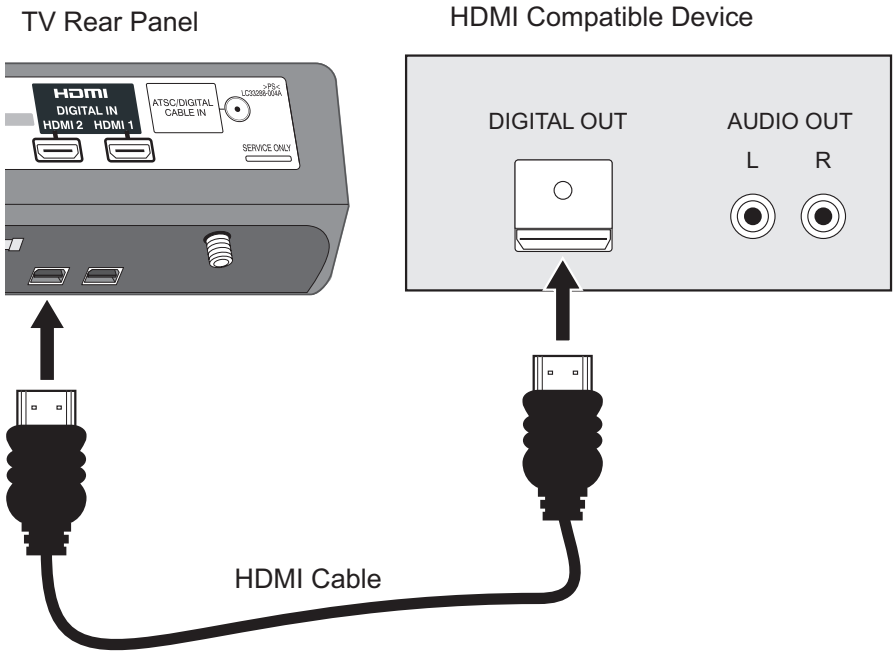
Notes:

- The Analog Audio input can only be used with the HDMI 1 input.
- If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted. Access the “DIGITAL-IN” in the initial setup menu to adjust it. (Refer to page 53.)
- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to ANALOG. See "DIGITAL-IN AUDIO", page 53.

Connecting to a HDMI Compatible Device

By connecting a HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or any HDMI compatible device.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides and interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).



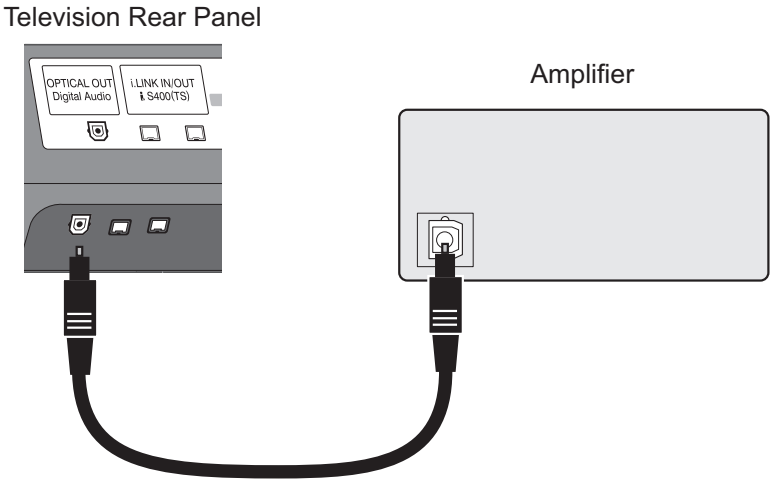
1) Connect the HDMI Cable from the DIGITAL OUT on the back of your DTV or HDMI device, to the DIGITAL-IN on the back of your television.

Notes:

- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to DIGITAL. See "DIGITAL-IN AUDIO", page 53.
- Some decoders may not respond depending on the equipment that you have connected when it is connected to the HDMI.
- If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

Connecting to an amplifier using your optical output

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output. The signal that is output can be PCM or Dolby Digital.



1) Connect the optical cable from underneath the television to the back of the amplifier.

Notes:

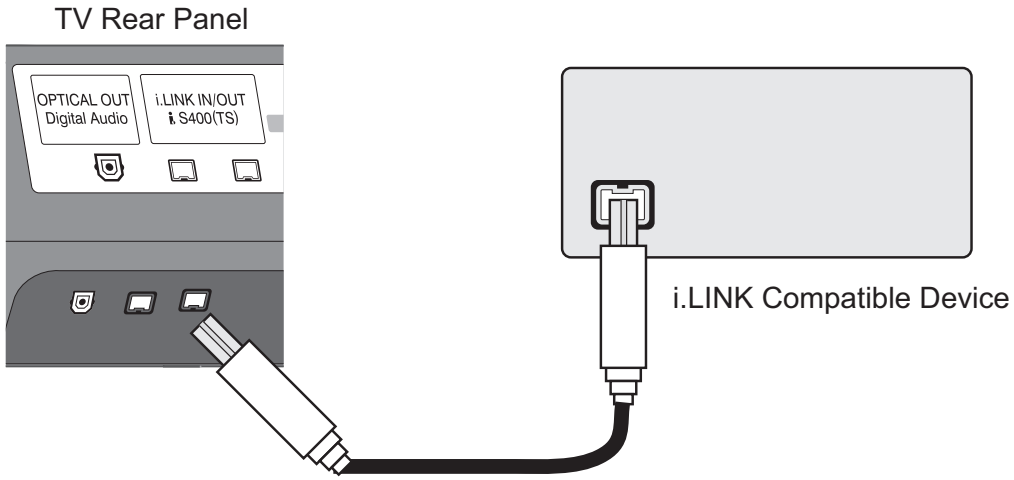
- This terminal can only output digital audio.
- In order to use the optical output connection, select PCM or Dolby Digital on Digital Sound in the Digital Setup Menu. See page 72.
- Refer to your owners manual on using your amplifier.

Connecting an i.LINK compatible device to the back of your television

i.LINK is a digital serial interface that allows devices equipped with an i.LINK connector to exchange digital video signals, digital audio signals and device control signals bi-directionally over a single cable. (For example, a JVC D-VHS VCR).

i.LINK refers to the IEEE1394-1995 industry specification and extensions thereof. The i logo is used for products compliant with the i.LINK standard.

This projection television uses a four-pin i.LINK connector to input and output MPEG2 video signals, audio signals and control signals.



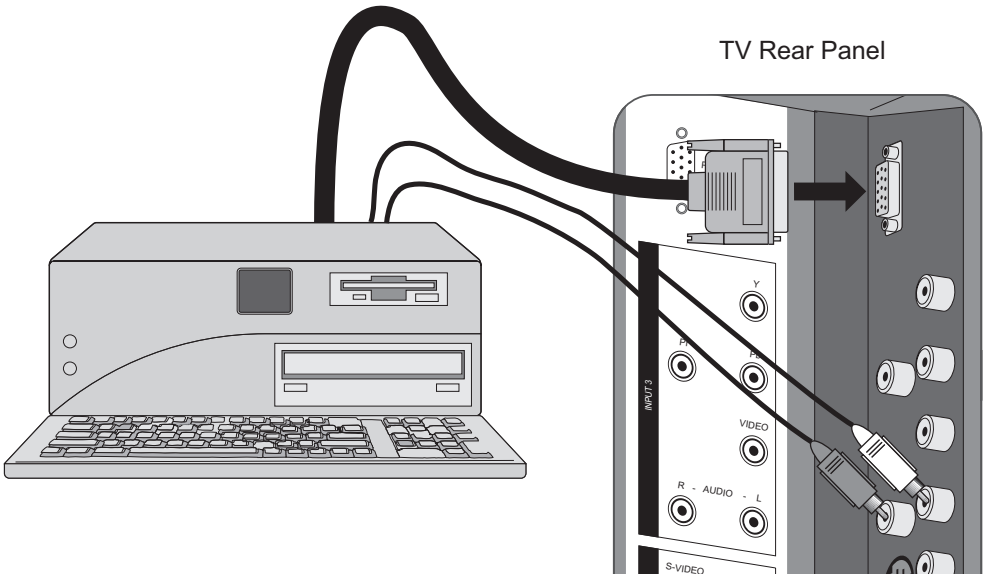
1) Connect the i.LINK cable from underneath the TV to the back of the i.LINK compatible device.

Notes:

- Use only the S400 i.LINK cable when connection your devices.
- See page 75 on how to select the i.LINK device.
- Refer to your owners manual on using your i.LINK device.
- When recording or playing back video with an i.LINK device, if you perform the Auto Tuner Setup, the video signal you are recording or playing back may stop or you may not be able to perform the Digital Auto Tuner Setup.
- Your television can connect with i.LINK D-VHS decks and HD-Camcorders (JVC brand only). If you connect other brand devices, with i.LINK cable, they will not work.
- It can play only the recorded contents in Digital Mode.
- Use only tapes bearing the DVHS (SVHS) mark for recording.

Connecting to the computer

This TV can be used as a computer screen. Use a commercially available D-SUB cable to connect the TV's PC INPUT terminal to the computer's analog RGB output terminal. If you want to listen to the sound from the computer, use a commercially available RCA cable to connect the INPUT-3 audio input terminal to the computer's audio output terminal.



Notes:

- Refer to your computer manual for a detailed explanation of the connections concerning your computer.
- Make sure that the connectors are facing the correct way when connecting.
- After connecting, tighten the two screws to fix the connectors in place.

Looking at the images from a computer

After starting the computer, press the INPUT button to choose INPUT-3. You can listen to the sound when the sound from the computer is connected to the INPUT-3 AUDIO input terminal.

Notes:

- When the sound from the computer is connected to INPUT-3 by choosing external input INPUT-3, the sound from the computer can be listened to, but the images from the computer cannot be seen.

Table of signals for each type of computer

Resolution	Vertical Frequency (Hz)	Horizontal Frequency (kHz)
640 x 480 (VGA)	60.0	31.5
1024 x 768 (XGA)	60.0	48.4

- Only the above formats are supported.
- Even with the above formats at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed correctly).
- Apple Macintosh* computers are not supported.

When a picture is not displayed

With some computers, some problems can be solved by changing the settings. Check the computer's refresh rate and set it to 60Hz. Computers that cannot set the refresh rate to 60 Hz, can not be used with this TV. Refer to the computer's instruction manual.

*Apple Macintosh is a registered trademark of Apple Computer, Inc.

Note:
- If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen. It appears when the input is PC and it is a single screen.

Step 4 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

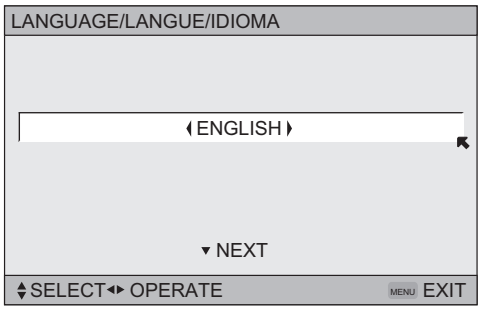
We recommend you complete the interactive plug-in items before you start using your television.

Notes:

- The interactive plug-in menu setting does not appear if your TV has been turned on before. In this case use the onscreen menus to perform these settings. See pages 46, 58, 36.
- If you press the Menu button while setting up the interactive plug-in menu, it will skip over it.

Language

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: English, French (Français) or Spanish (Español).



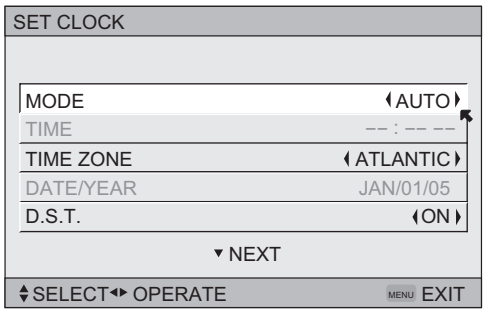
◀▶ To choose a language:
(English, Français or Español)

▼ To NEXT (To set clock)

(To be continued...)

Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:



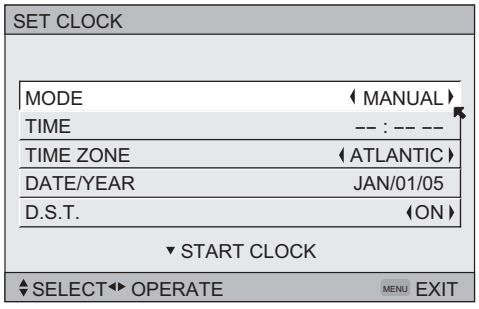
◀▶ To choose AUTO
▼ To TIME ZONE
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To move to D.S.T. (Daylight Savings Time)
◀▶ To turn D.S.T. ON or OFF
▼ To NEXT (To Auto Tuner Setup)

Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE is set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.



◀▶ To choose MANUAL
▼ To TIME
◀▶ To set the hour
▼ To minute
◀▶ To set the minute
▼ To TIME ZONE
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To DATE/YEAR
◀▶ To set the month
▼ To day
◀▶ To set the day
▼ To year
◀▶ To set the year
▼ To move to D.S.T. (Daylight Savings Time)
◀▶ To turn D.S.T. ON or OFF
▼ To START CLOCK

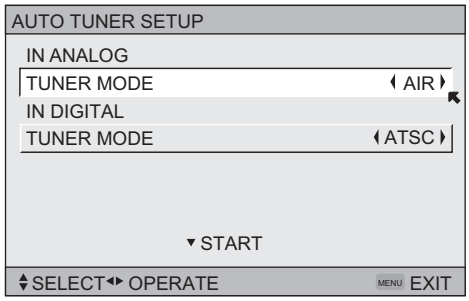
Note:

- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

(To be continued...)

Auto Tuner Setup

In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/– buttons) you will receive only clear, active channels. There are two tuner modes to choose from, ANALOG or DIGITAL.



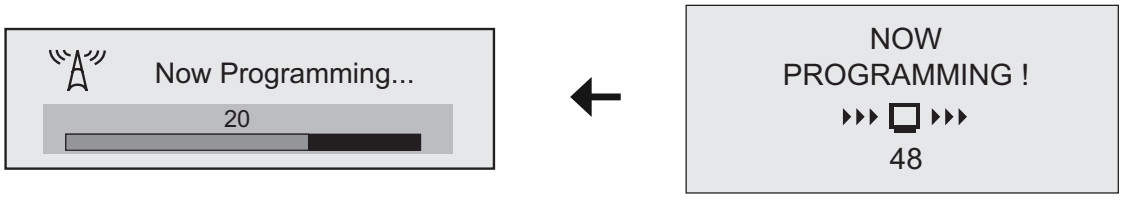
◀▶ To choose CABLE or AIR (or SKIP when you skip Analog Auto Tuner Setup)

▲▼ To TUNER MODE (IN DIGITAL)

◀▶ To choose ATSC or Digital Cable (or SKIP when you skip Digital Auto Tuner Setup)

▼ To START

After Analog Auto Tuner Setup is finished, Digital Auto Tuner Setup starts.



When the setup is finished, "THANK YOU ! SETUP IS NOW COMPLETE" is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- If you want to cancel the Auto Tuner Setup, press the MENU button.
- Noise muting will not work during Auto Tuner Setup.
- If you choose SKIP, it finished without doing the Auto Tuner Setup.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.

The Quick Setup is complete

Remote Programming

Setting the CATV, VCR and DVD Codes

You can program your remote to operate your cable box, satellite receiver, VCR or DVD player by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite Codes

The remote control is programmed with cable box and satellite codes for power on/off, channel up/down, and 10 key operation.

1) Find the cable box or satellite brand from the list of codes shown below.
2) Slide the 2-way selector switch to “CATV”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the cable box/satellite receiver.

- If your cable or satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the search codes function, on page 32.

Cable Box	Codes
ABC	024
Archer	032, 025
Cableview	051, 032
Citizen	022, 051
Curtis	058, 059
Diamond	024, 032, 025
Eagle	029
Eastern	034
GC Brand	032, 051
Gemini	022, 043
General Instrument/Jerrold	065, 024, 025, 026, 027, 020, 021, 022, 057, 023, 072, 074
Hamlin	040, 041, 042, 045, 058, 064
Hitachi	049, 024
Macom	049, 050, 051, 054
Magnavox	033
Memorex	030
Movietime	032, 051
Oak	039, 037, 048
Panasonic	055, 056, 060, 071, 073
Paragon	063
Philips	028, 029, 030, 052, 053, 031, 069
Pioneer	047, 062
Pulsar	051, 032

Cable Box	Codes
Puser	032
RCA	061, 070
Realistic	032
Regal	058, 064, 040, 041, 042, 045, 068
Regency	034
Rembrandt	037, 032, 051, 038
Samsung	051
Scientific Atlanta	057, 058, 059
SLMark	051, 047
Sprucer	051, 056
Stargate	032, 051
Telecaption	067
Teleview	047, 051
Texscan	044
Tocom	035, 036, 066, 074
Toshiba	050, 048
Unika	032, 025
Universal	022, 032
Videoway	052
Viewstar	029, 030
Zenith	063, 046
Zenith/Drake Satellite	046

Digital Satellite Systems	Codes
Echostar (Dish Network)	100, 113, 114, 115
Express VU	100, 113
G.E.	106
G.I.	108, 120, 121, 122
Gradiente	112
Hitachi	104, 111
HNS (Hughes)	104
Magnavox	102, 103
Panasonic	105
Philips	102, 103, 116
Primestar	108
Proscan	106, 109, 110
RCA	106, 109, 110
Sony	107
Star Choice	104, 108
Toshiba	101, 104, 117, 118, 119
Uniden	102, 103

Remote Programming

VCR Codes

The remote control is programmed with VCR codes for power on/off, play, stop, fast-forward, rewind, pause, record, channel up/down operation.

1) Find the VCR brand from the list of codes shown below.
2) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “VCR”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the VCR.

- If your VCR does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 32.
- After you program your remote, some VCR buttons may not work properly. If so, use the VCR’s remote.
- To record, hold down the REC button on the remote and press PLAY.

VCR	Codes
Admiral	035
Aiwa	027, 032, 095
Akai	029, 072, 073, 074
Audio Dynamic	003, 005
Bell & Howell	063, 071
Broksonic	020, 026, 094
Canon	023, 025
CCE	043
Citizen	064
Craig	063, 029, 064
Curtis Mathes	045, 024, 027, 093
Daewoo	043, 059, 024, 092
DBX	003, 004, 005
Dimensia	045, 093
Emerson	043, 026, 077, 061, 025, 042, 020, 076
Fisher	063, 066, 067, 065, 071, 091
Funai	027, 026, 020, 000
G.E.	033, 045, 024
Go Video	037, 051, 049, 050, 089
Goldstar	064
Gradiente	083, 084, 081, 000, 001
Hitachi	023, 045, 058, 093, 027, 081
Instant Replay	024, 023
Jensen	003
JVC	003, 004, 005, 000, 001, 002, 006, 007
Kenwood	003, 004, 064, 005
LG	064
LXI	027, 064, 058, 065, 066, 063, 067
Magnavox	031, 023, 024, 086

VCR	Codes
Marantz	003, 004, 005
Marta	064
Memorex	024, 067
MGA	038, 040, 047, 048, 041, 042
Minolta	058, 045, 093
Mitsubishi	038, 040, 047, 048, 041, 042, 078, 090
Multitech	047, 027, 062
NEC	003, 004, 005, 000
Olympic	024, 023
Optimus	028, 021, 035, 064
Orion	026, 020
Panasonic	023, 024, 021, 022
Penney	024, 058, 045, 063, 003, 004, 005, 093
Pentax	058, 005, 045, 093
Philco	031, 024, 027, 023, 026, 020, 043
Philips	031, 023, 024, 086
Pioneer	023
Proscan	045, 058, 023, 024, 031, 046, 059, 060, 093, 033, 087
Quasar	021, 022, 023, 024
Radio Shack	033, 024, 063, 036, 067, 040, 027
RCA	033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 084, 085, 087, 093, 096
Realistic	024, 063, 036, 067, 040, 027

VCR	Codes
Samsung	037, 060, 062, 033, 089
Samtron	089
Sansui	003, 026, 020, 052
Sanyo	063, 067, 091, 071
Scott	059, 060, 062, 067, 038, 040, 047, 048, 026, 020
Sears	063, 064, 065, 066, 058
Sharp	035, 036, 080, 088
Shintom	075
Signature 2000	027, 035
Singer	075
Sony	028, 029, 030, 053, 054, 055
SV 2000	027
Sylvania	031, 023, 024, 027
Symphonic	027, 081
Tashiro	064
Tatung	003, 004, 005
Teac	003, 004, 027, 005
Technics	021, 022, 023, 024
Teknika	024, 027, 070
Thomson	033, 096
Toshiba	059, 046, 079
Vector Research	005
Wards	035, 036, 067, 044, 064
Yamaha	063, 003, 004, 005
Zenith	044, 082, 064, 094

Remote Programming

DVD Codes

The remote control is programmed with DVD codes for power on/off, play, stop, fast-forward, rewind, previous/next chapter, tray open/close, and still/pause operation.

1) Find the DVD player brand from the list of codes shown below.
2) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “DVD”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the DVD player.

- If your DVD player does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 32.
- After you program your remote, some DVD buttons may not work properly. If so, use the DVD player’s remote.

DVD Player	Codes	DVD Player	Codes	DVD Player	Codes
Aiwa	043	Mintek	057	Sharp	028
Apex	040, 054, 055	Mitsubishi	025	Silvania	038
Bose	058	Next Base	056	SMC	048
Denon	020, 037	Onkyo	041, 052	Sony	024, 045, 046, 047
Funai	038	Oritron	044	Technics	020
Go–Video	032	Panasonic	020	Thomson	021
Harman Kardon	053	Philips	023, 036	Toshiba	023
Hitachi	031	Pioneer	022	Venturer	051
JVC	000	Polk Audio	036	Vialta	050
Kenwood	035, 020	Raite	033	Wave	042
KLH	051	RCA	021, 026	Yamaha	020, 049
Konka	039	Sampo	034	Zenith	027, 032
Koss	050	Samsung	030		

Remote Programming

Search Codes

Cable/Satellite Search Codes Function

1) Slide the first 2-Way Mode Selector switch to CATV.
2) Press the POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
3) Press the POWER button on the remote, and see if the cable or satellite box responds.
4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times without a response, use the remote control that came with your equipment.
5) Press RETURN+/TV to exit.

VCR/DVD Search Codes Function

1) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “VCR” or “DVD”.
2) Press the VCR or DVD POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
3) Press the VCR or DVD POWER button, and see if the VCR or DVD responds.
4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times for the VCR (40 times for the DVD player), and there is no response, use the remote control that came with your equipment.
5) Press RETURN+/TV to exit.

Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

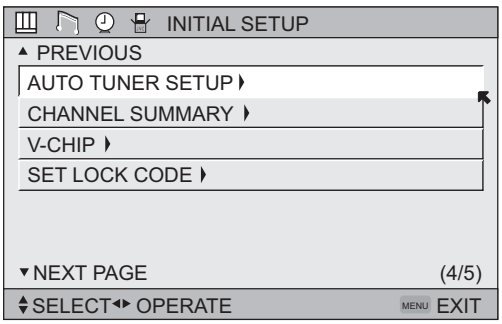
▲▼ Up and Down arrows mean press the CH+ or CH– buttons. Pressing the CH+ or CH– buttons let you:
- Move vertically in a main menu screen
- Move through a submenu screen
- Move to the next letter, number, or other choice in a submenu
- Back up to correct an error
- Scan through TV channels (when not in a menu screen)

◀▶ Left and right arrows mean press the VOLUME+ or VOLUME- buttons to move left or right to:
- Select a highlighted menu item
- Select an item in a submenu
- Select numbers in certain menu options
- Turn the volume up or down (when not in a menu screen)

The "press button" icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)

The "helping arrow" icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in green is the one currently selected. If you use the Menu button on the TV's side panel instead of the remote, an additional menu screen showing VIDEO STATUS and ASPECT will appear between INITIAL SETUP and PICTURE ADJUST. The "interactive plug-in menu" will appear the first time the TV is plugged in.



Note:

- Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.

Onscreen Menus

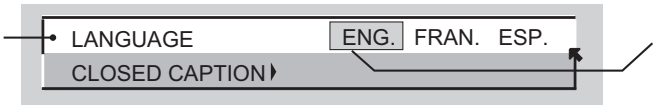
The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. Examples of the onscreen menus are shown on the next page. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 26 - 28.

The Onscreen Menu System

To open the onscreen menu system, press the MENU button on the remote control. You navigate within the onscreen menus by using the four directional arrow buttons on the remote control. (These buttons are also the CH +/– and VOL +/– buttons. Channel and volume functions will not operate when the onscreen menu is active).

The selected feature and option on a menu screen are highlighted in a different color.



To move to a different feature use the ▲▼ arrows to move up or down the list. When you press the up arrow at the top of the list or the down arrow at the bottom, the next menu screen will appear. Use the arrows ◄ ► to select an option from the highlighted feature. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

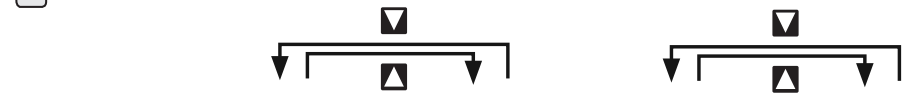
Each menu and its features will be discussed in the following pages of this guide.

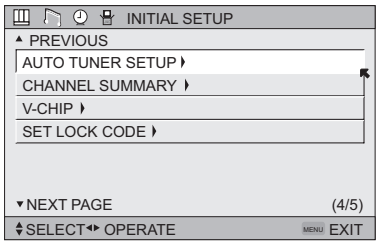
Notes:

- If you do not press any buttons for a few seconds, the onscreen menu will automatically shut off.
- Button names in this guide are shown in SMALL CAPITAL LETTERS.
- Menus may appear in different sizes onscreen depending on the aspect ratio selected.
- Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected.

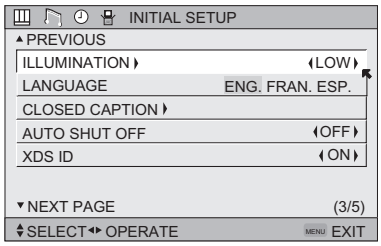
Onscreen Menus

Press the MENU button

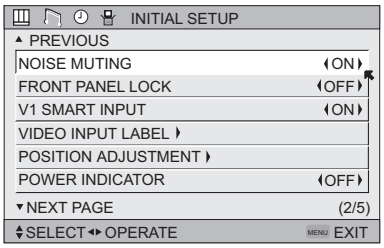




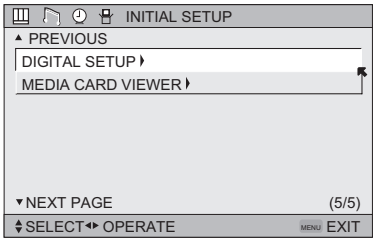
INITIAL SETUP 04



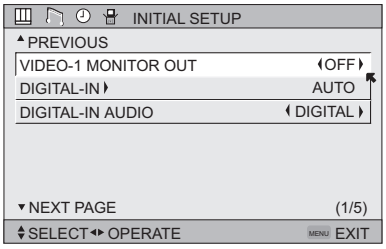
INITIAL SETUP 03



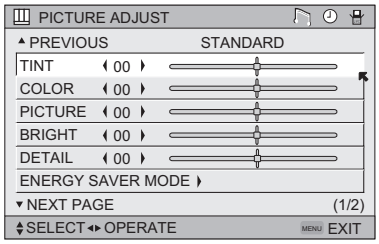
INITIAL SETUP 02



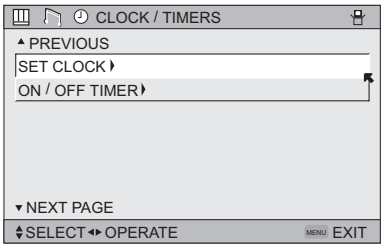
INITIAL SETUP 05



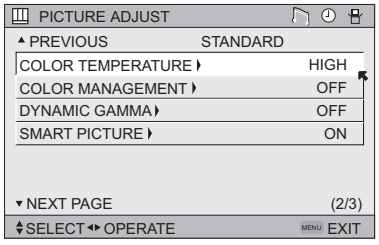
INITIAL SETUP 01



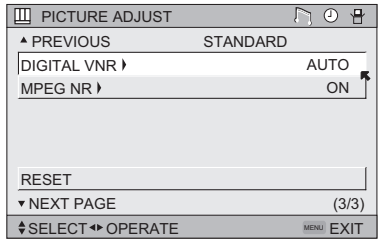
PICTURE ADJUST 01



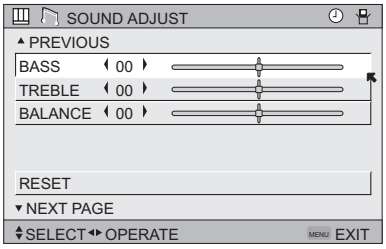
CLOCK/TIMERS



PICTURE ADJUST 02



PICTURE ADJUST 03



SOUND ADJUST

Notes:

- The DIGITAL-IN menu can only be displayed when a 480p picture signal is input to the digital-in terminal and the picture is being displayed on the screen.
- SMART PICTURE menu cannot be displayed when DYNAMIC is selected for Video Status.
- When the Menu button on the TV side panel is pressed, the FRONT PANEL CONTROL menu between INITIAL SETUP 05 and PICTURE ADJUST 01 will appear.
- Regarding the digital setup menu, see page 71.

Initial Setup

Auto Tuner Setup

The auto tuner setup function is described on page 28 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.

Press the MENU button

▲▼ To AUTO TUNER SETUP

◀▶ To operate

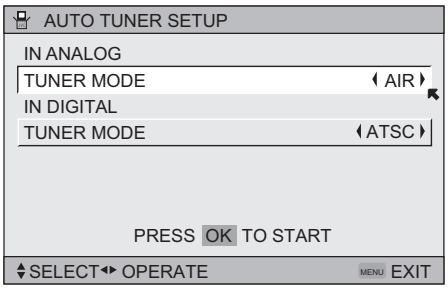
▲▼ To TUNER MODE (IN ANALOG)

◀▶ To choose CABLE, AIR or SKIP

▲▼ To TUNER MODE (IN DIGITAL)

◀▶ To choose ATSC, DIGITAL CABLE or SKIP

Press the OK button to start



Programming will take approximately 2 to 4 minutes. The auto tuner is finished when the message **PROGRAMMING OVER!** appears onscreen.

Press the Menu button when finished

Note:

- Digital Auto Tuner Setup will take approximately 14 minutes.

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 191 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.

Press the MENU button

▲▼ To CHANNEL SUMMARY

◀▶ To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an "√". Regarding analog channels, you can delete channels from the scan by removing the "√". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "√" next to the channel number.

- Digital channels can not be added to the channel summary if the auto tuner setup did not find them.

▲▼◀▶ To the SCAN column

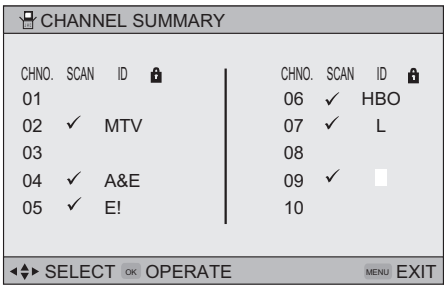
Press the OK button to include or delete from scan

Press the MENU button when finished

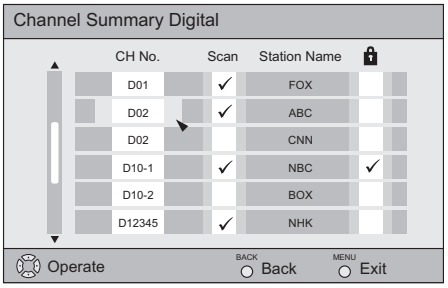
Note:

- The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now had disappeared, the lock channel or scanned channel by the channel summary for that channel will be cancelled.

Analog Channels



Digital Channels

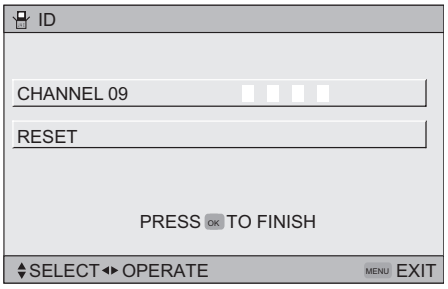


Note:

- When the Cable Card is not inserted into the Cable Card Slot:
  If you are watching analog channels, the above screen appears.
  If you are watching digital channels, the below screen appears.
- When the Cable Card is inserted into the Cable Card Slot:
  Below screen appears
  Both analog and digital channels are listed, but the background video is not displayed.

Initial Setup

How to set the channel label. ***(This is only for analog broadcasting.)***



Press the MENU button

▲▼ To CHANNEL SUMMARY
◀▶ To operate
▲▼ To the ID column

Press the OK button to enter

◀▶ To select the character you want
▲▼ To move to the next space

...continue to follow these directions for all four spaces

Press the OK button to finish

Your characters are now set

Press the MENU button when finished

If you want to reset the characters you set:

Press the MENU button

▲▼ To CHANNEL SUMMARY
◀▶ To operate
▲▼ To the ID column

Press the OK button to enter

▲▼ To select RESET

Press the OK button to finish

Your characters are now reset

Notes:

- You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 40 channel labels.
- If you try to set more than the 40 maximum, the message "MEMORY OVERFLOW" will appear.

You can block access to a channel by activating the channel lock.

Press the MENU button

▲▼ To CHANNEL SUMMARY

◀▶ To operate

▲▼◀▶ To the Lock Column (🔒)

Press the ZERO button to lock or unlock that channel

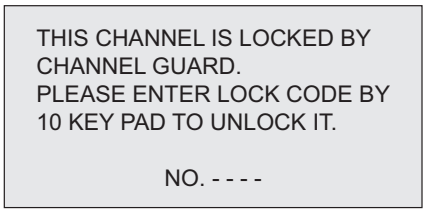
Press the MENU button when finished

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.
If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.



Notes:

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- See also "Set Lock Code", page 45.

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from a DVD discs, VCR tapes or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 40 for information on how to block unrated programs.

Note (for Canadian viewers): The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:

Press the MENU button

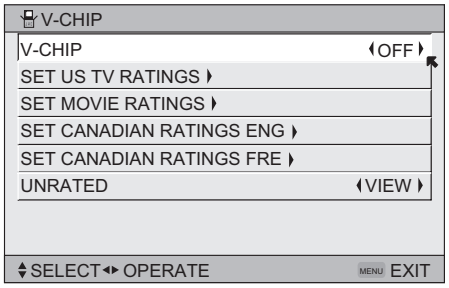
▲▼ To V-CHIP

◀▶ To operate (Lock icon will appear)

Press ZERO to access the V-Chip menu

◀▶ To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)

▲▼ To move to SET US TV RATINGS, SET MOVIE RATINGS, or SET CANADIAN RATINGS (see following pages for descriptions of each item)



Initial Setup

Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the “Unrated Programming” category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

Note:

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

Directions to Block Unrated Programs

You can block programs that are not rated.

Press the MENU button

▲▼ To V-CHIP

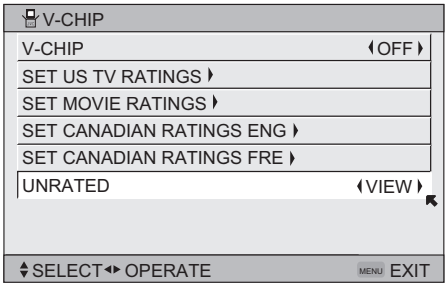
◀▶ To operate (The lock icon appears)

Press ZERO to access V-Chip setup options

▲▼ To UNRATED

◀▶ To VIEW or BLOCK

Press MENU when done



US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

- ❒ **TV Y is Appropriate for All Children**
  Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.
- ❒ **TV Y7 is for Older Children**
  Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

- ❒ **TV G stands for General Audience**
  Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.
- ❒ **TV PG Parental Guidance Suggested**
  May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.
- ❒ **TV 14 Parents Strongly Cautioned**
  Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.
- ❒ **TV MA Mature Audiences Only**
  These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG

Initial Setup

Setting US V-Chip Ratings

Press the MENU button

▲▼ To V-CHIP

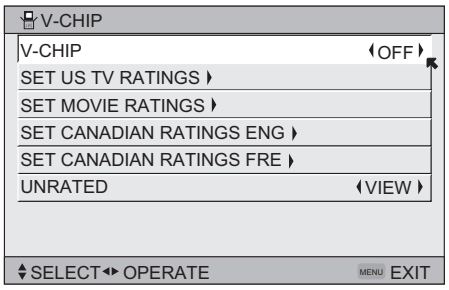
◀▶ To operate (lock icon appears)

Press ZERO to access the V-Chip menu

◀▶ To turn V-Chip ON or OFF

▲▼ To move to SET US TV RATINGS

◀▶ To operate



Directions to set US V-Chip Ratings

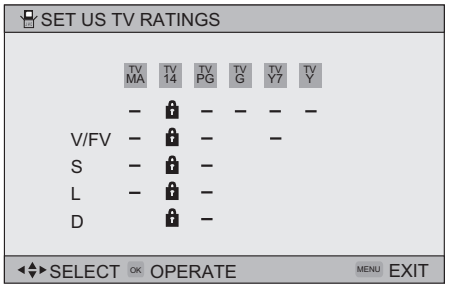
Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲▼ or ◀▶ to move the cursor to the correct location. Press OK to turn the locking feature on or off. An item is locked if the icon appears instead of a "—".

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

▲▼◀▶ To the TV 14 Column

Press the OK button to lock

Press the MENU button when finished



Note:

- If you want to change the setup, move the cursor to the top column and change the lock icon to "—" by pressing OK again. You may then select individual categories to block.

Movies Ratings

❒ **NR – Not Rated**
This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

❒ **G – General Audience**
In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

❒ **PG – Parental Guidance**
Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

❒ **PG-13 – Parents Strongly Cautioned**
Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

❒ **R – Restricted**
These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

❒ **NC-17 – No One Under 17**
These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

❒ **X – No One under 18**
Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings

Press the MENU button

▲▼ To V-CHIP
◀▶ To operate (Lock icon appears)

Press ZERO to access V-Chip setup options

▲▼ To SET MOVIE RATINGS
◀▶ To enter movies menu

For example:

To block viewing of X and NC-17 rated from shows:

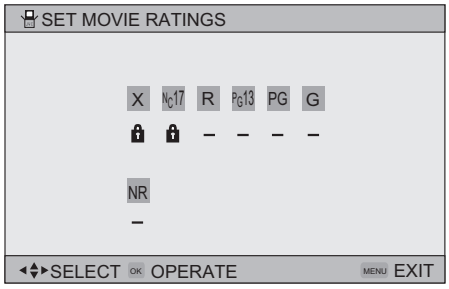
▲▼◀▶ To the X Column

Press the OK button to lock

▲▼◀▶ To the NC-17 Column

Press the OK button to lock

Press the MENU button to finish



Initial Setup

Canadian V-Chip Ratings

- **E – Exempt**
  Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- **C – Programming Intended for Children**
  Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.
- **C8+ – Programming Intended for Children 8 and Over**
  Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.
- **G – General Audience**
  Programming will contain little violence and will be sensitive to themes which could affect younger children.
- **PG – Parental Guidance**
  Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.
- **14+ – 14 Years and Older**
  Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.
- **18+ – Adult**
  Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings

Press the MENU button

▲▼ To V-CHIP
◀▶ To operate (lock icon appears)

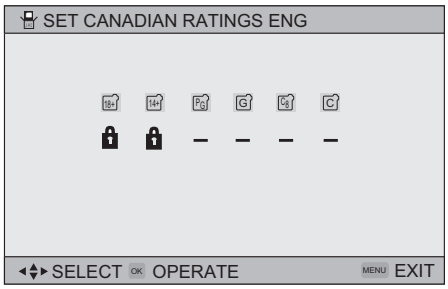
Press ZERO to access V-Chip setup options

▲▼ To SET CANADIAN RATINGS ENG (for English)
◀▶ To enter ratings menu

For example:

To block viewing of programming rated 14+ and 18+:

◀▶ To the 18+ Column
Press the OK button to lock
◀▶ To the 14+ Column
Press the OK button to lock
Press the MENU button to finish



Note:

- For instructions on “SET CANADIAN RATINGS FRE (in French)”, please see page 44 in the French side of this user’s guide.

Set Lock Code

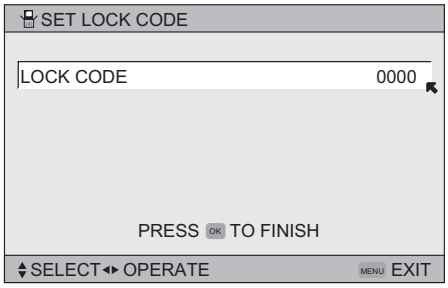
Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes preset with a lock code of “0000”. You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.

Press the MENU button

▲▼ To SET LOCK CODE

◀▶ To operate (lock icon appears)

Press ZERO to access the lock code



The first digit will be highlighted

◀▶ To select the number

▲▼ To move to the next digit

Continue to follow these directions for all four numbers

Press the OK button to finish (your lock code is now set)

Press the Menu button when finished

When a viewer attempts to watch a blocked channel, this message appears:

THIS PROGRAMMING EXCEEDS
YOUR RATING LIMITS.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. - - - -

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

Notes:

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

Initial Setup

Illumination

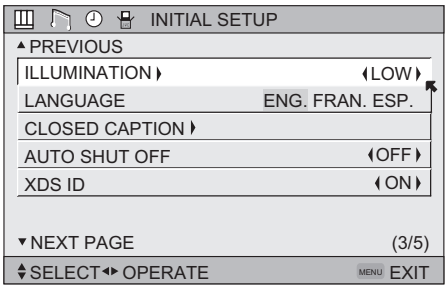
The illumination feature allows you to adjust the brightness of the light on the front of the television. When you turn the power on the televison, the front panel light remains on when illumination is set to LOW or HIGH.

Press the Menu button

▲▼ To ILLUMINATION

◀▶ To choose HIGH, LOW or OFF

Press the MENU button when finished



Language

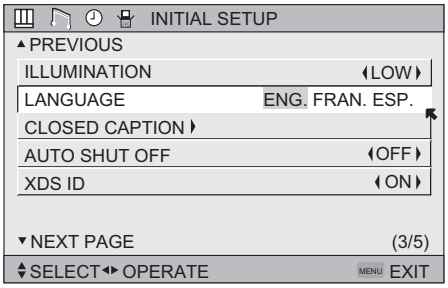
The language function is described on page 26 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.

Press the Menu button

▲▼ To LANGUAGE

◀▶ To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)

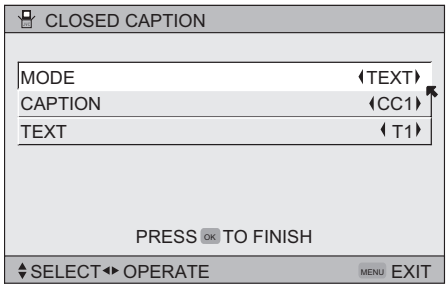
Press the MENU button when finished



Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below. There are three methods. When you are watching analog channels, you can perform Analog Setting of closed caption. When you are watching digital channels, you can perform Digital Auto Setting or Digital Manual Setting.

Analog Setting



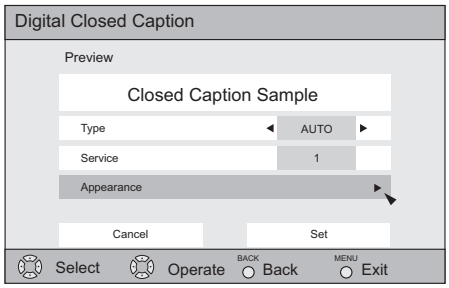
Press the MENU button

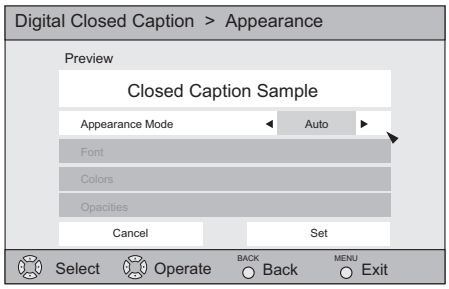
▲▼ To CLOSED CAPTION
◀▶ To enter
▲▼ To MODE
◀▶ To select CAPTION or TEXT in MODE
▲▼ To CAPTION or TEXT
◀▶ To select a caption (CC1 to CC4) or text channel (T1 to T4)

Press the OK button to save

Press the MENU button when finished

Digital Auto Setting





Press the MENU button

▲▼ To CLOSED CAPTION
◀▶ To enter
▲▼ To Type
◀▶ To select Auto, Advanced or Basic

Auto: *Shows closed caption a priority for digital channels over analog channels. It is set automatically.*
Advanced: *Shows only the digital closed caption.*
Basic: *Shows only the analog closed caption.*

▲▼ To Service
◀▶ To select 1, 2, 3, 4, 5 or 6
▲▼ To Appearance
◀▶ To enter
◀▶ To select Auto
▲▼ To Set

Press the OK button to save

The font/type and color are set automatically.

Press the MENU button when finished

Note:

- If you want to cancel the settings, select cancel.

Initial Setup

Digital Manual Setting

Press the MENU button

▲▼ To CLOSED CAPTION

◀▶ To enter

▲▼ To Type

◀▶ To select Auto, Advanced or Basic

▲▼ To Service

◀▶ To select 1, 2, 3, 4, 5 or 6

▲▼ To Appearance

◀▶ To enter

◀▶ To select Manual

▲▼ To Font

◀▶ To enter

▲▼ To select Font Size or Font Style

◀▶ To select the setting you like

Font Size: Auto, Standard, Large or Small

Font Style: Auto, Serif Mono, Serif, Sanserif mono, Sanserif, Casual, Cursive or Small Capital

▲▼ To Set

Press the OK button to save

▲▼ To Colors

◀▶ To enter

▲▼ To select Text, Edge or Background

◀▶ To select the setting you like

Auto, White, Black, Red, Green, Blue, Yellow, Magenta or Cyan

▲▼ To Set

Press the OK button to save

▲▼ To Opacities

◀▶ To enter

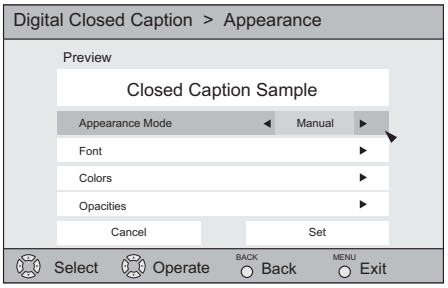
▲▼ To select Text/Edge or Background

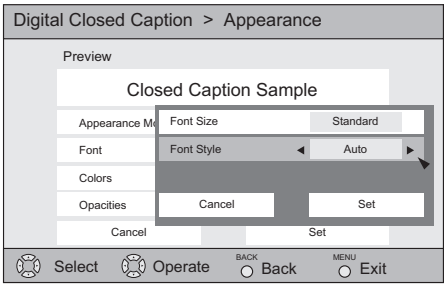
◀▶ To select Auto, Transparent, Translucent, Solid or Flashing

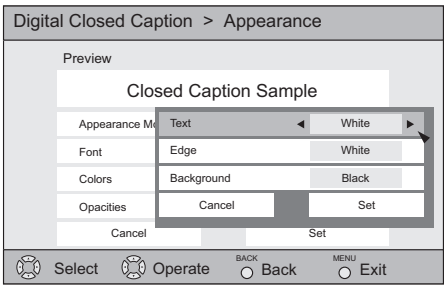
▲▼ To Set

Press the OK button to save

Press the MENU button when finished







All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

Notes:

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 66.

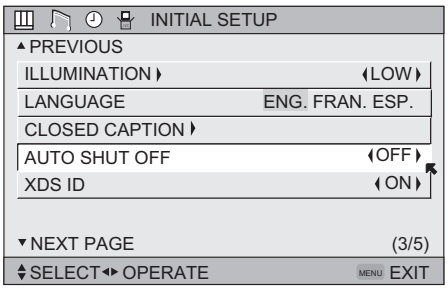
Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel the TV is on.

Press the MENU button

▲▼ To AUTO SHUT OFF
◀▶ To turn ON or OFF

Press the MENU button when finished



- If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL" appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.
- When i.LINK is displayed, Auto Shut Off will not work.

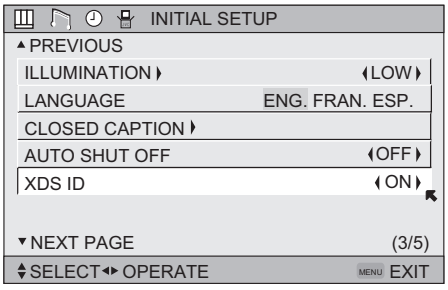
XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.

Press the MENU button

▲▼ To XDS ID
◀▶ To turn ON or OFF

Press the MENU button when finished



Initial Setup

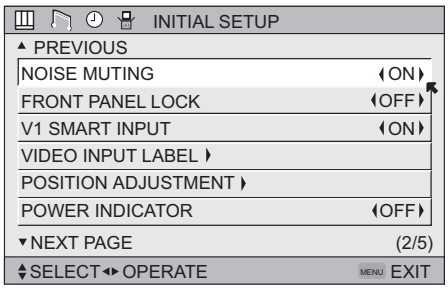
Noise Muting

This feature inserts a blank grey screen over channels which are not broadcasting or are too weak to be received clearly.

Press the MENU button

▲▼ To NOISE MUTING
◀▶ To turn noise muting ON or OFF

Press the MENU button when finished



Note:

- Noise muting will not work during auto tuner setup or when you operate channel summary.
- Noise muting will not work when the digital TV or i.LINK is displayed.

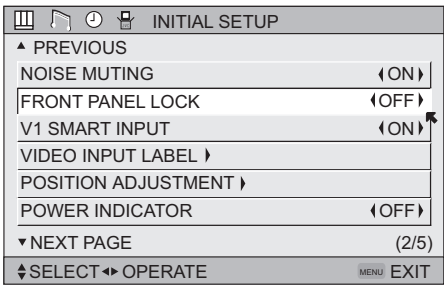
Front Panel Lock

This allows you to lock the keys on the side of the TV, so that a child may not accidentally change your viewing preferences.

Press the MENU button

▲▼ To FRONT PANEL LOCK
◀▶ To turn ON or OFF

Press the MENU button when finished



You can turn off this feature in the following ways:

- Unplug the power cord, and plug it back in. Do this if your batteries die, or you lose your remote control.
- Use the remote control.
- Press the MENU button on the side of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.

Note:

- To turn ON/OFF the TV, press the power button for more than 3 seconds. This feature will remain ON.

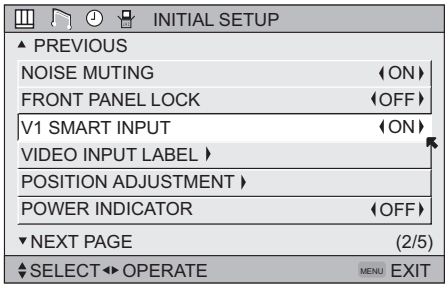
V1 Smart Input

This feature is used if you have connected an AV Receiver to your television. By turning this feature on, your television can automatically detect the signal source from your components that are connected to your AV Receiver.

Press the MENU button

▲▼ To V1 SMART INPUT
◀▶ To turn ON or OFF

Press the MENU button when finished



Notes:

- If you do not have an AV Receiver connected to your television, turn this feature OFF.
- Some AV Receivers may not work with this function.

Video Input Label

This function is used to label video input connections for the onscreen displays.

Press the MENU button

▲▼ To VIDEO INPUT LABEL

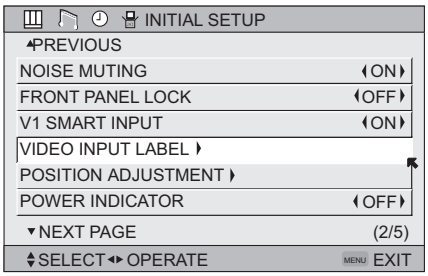
◀▶ To operate

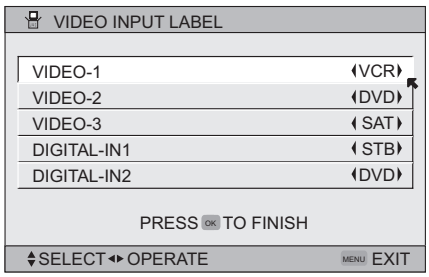
▲▼ To select the desired video input

◀▶ To select the desired preset input label (see chart below)

Press the OK button to save

Press the MENU button when finished





Preset Labels	Select when...
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
DVHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Initial Setup

Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama or cinema.

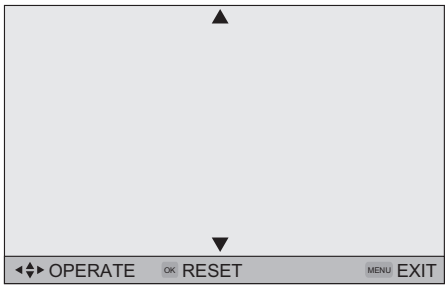
Press the MENU button

▲▼ To POSITION ADJUSTMENT

◀▶ To enter

▲▼◀▶ To adjust the position

Press the MENU button to finish



Notes:

- To reset the adjustment to the center, press the OK button.
- When the arrow disappears, while you are adjusting the position, the position is at it's maximum limit.
- If you select regular, full, full native and slim size with aspect or Multi Screen, position adjustment option is not seen.
- When you change the screen size, perform the position adjustment again.
- Position adjustment allows you to adjust the screen position vertically and horizontally when the aspect is set Panorama Zoom or Cinema Zoom for 1080i and 720p signals, or when PC mode is set.

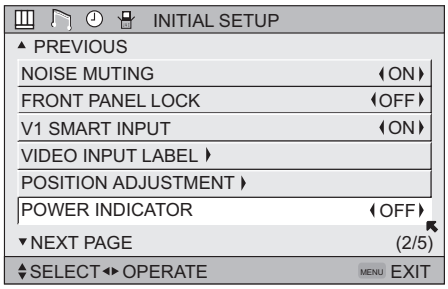
Power Indicator

Power indicator allows you to adjust the brightness of the power indicator

Press the MENU button

▲▼ To POWER INDICATOR

◀▶ To adjust POWER INDICATOR LOW, HIGH or OFF



Note:

- If you set a timer on the TV, the power indicator will light even if the TV is on stand by.

Video-1 Monitor Out

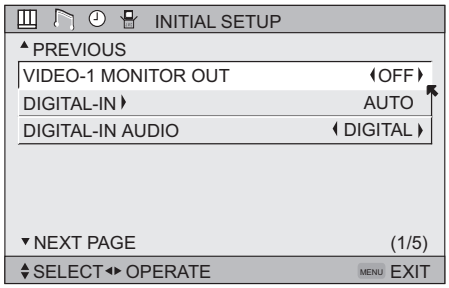
This function allows you to set whether the signal, which comes from VIDEO-1 input terminal, should be output from MONITOR OUT terminal. If you select it from MONITOR OUT, set it to "ON".

Press the MENU button

▲▼ To VIDEO-1 MONITOR OUT

◀▶ To select ON or OFF

Press the MENU button to finish



Digital-In

The DIGITAL-IN option can only be displayed in the INITIAL SETUP menu when a 480p picture signal is being input to the DIGITAL-IN terminal. This option adjusts the position when a 480p picture signal is being displayed on the screen. There are two types of 480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting either SIZE1 or SIZE2.

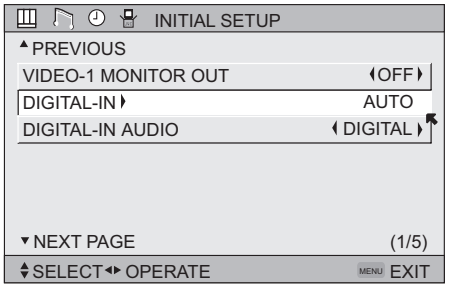
Press the MENU button

▲▼ To DIGITAL-IN

◀▶ To enter

▲▼ To select AUTO, SIZE1 or SIZE2

Press the MENU button to finish



Notes:

- The DIGITAL-IN menu can only be displayed when a 480p picture signal is input to the Digital-In terminal and the picture is being displayed on the screen.
- You can select AUTO only when the signal is 480p for HDMI. When you select AUTO, the televison will select "SIZE1" or "SIZE2" automatically.

Digital-In Audio

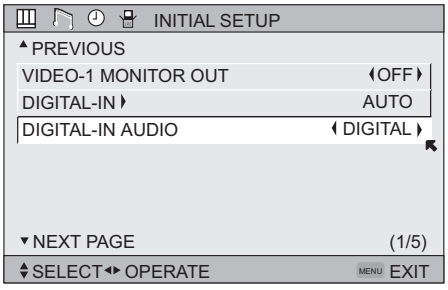
This feature is used if you have a DTV or HDMI compatible component connected to your TV.

Press the MENU button

▲▼ To DIGITAL-IN AUDIO

◀▶ To select ANALOG, DIGITAL or AUTO

Press the Menu button when finished



Notes:

- If your DTV or HDMI component is capable of digital audio and video, choose DIGITAL. If your DTV or HDMI component is capable of analog audio and digital video, choose ANALOG.
- Refer to your DTV or HDMI component's instruction manual for more information.
- When you select DIGITAL, select PCM on Digital Sound in the Digital Setup menu. See page 72.
- When you select AUTO, the television will select "ANALOG" or "DIGITAL" automatically, depending on the audio input from the HDMI.
- When your input is DIGITAL-IN2, DIGITAL-IN AUDIO cannot be selected.

Picture Adjust

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

TINT
Tint allows you to adjust the levels of red and green in your TV picture.

COLOR
The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

PICTURE
Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

BRIGHT
You can adjust the overall brightness of the TV picture with the Bright control.

DETAIL
The Detail feature adjusts the level of fine detail displayed in the picture.

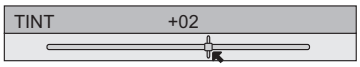
ENERGY SAVER MODE
The energy saver mode adjusts the level of brightness on the TV screen.

Adjust the Picture Settings

Press the MENU button

▲▼ To TINT, COLOR, PICTURE, BRIGHT, DETAIL or ENERGY SAVER MODE

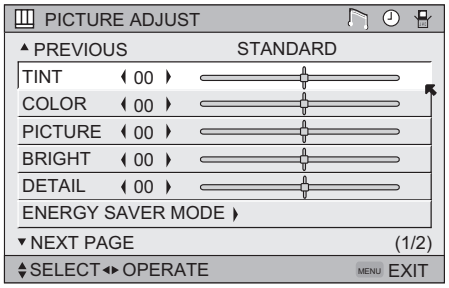
◀ ▶ To enter



◀ ▶ To adjust the setting

▲▼ To move to the next setting

Press the MENU button when finished



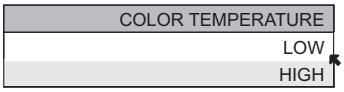
Color Temperature

You can decide how strong or dull the colors appear on the TV screen.

Press the MENU button

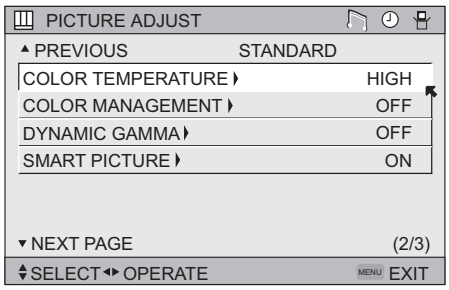
▲▼ To COLOR TEMPERATURE

◀ ▶ To enter



▲▼ To set LOW or HIGH

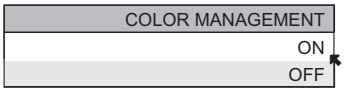
Press the MENU button when finished



Picture Adjust

Color Management

This TV supports the COLOR MANAGEMENT function to ensure dull colors are compensated to produce natural hues.



Press the MENU button

▲▼ To COLOR MANAGEMENT

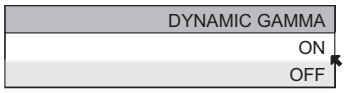
◀▶ To enter

▲▼ To select the mode “ON" or "OFF"

Press the MENU button when finished

Dynamic Gamma

JVC's Dynamic Gamma Circuitry (DGC makes it easier to see dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas. DGC is turned on, DGC analyzes and adjusts the total level of picture brightness balance, especially in dark areas where the level of greyscale is often lost, turning completely to black DGC automatically enhances the detail in these dark areas providing a more dynamic image with finer detail, so the optimum picture settings are automatically set for each picture. Normally use with DGC on.



Press the MENU button

▲▼ To DYNAMIC GAMMA

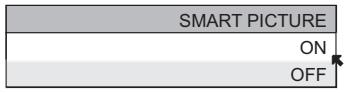
◀▶ To enter

▲▼ To turn ON or OFF

Press the MENU button when finished

Smart Picture

Smart Picture detects the APL (Average Picture Level) and adjusts the contrast suitable for what you are watching.



Press the MENU button

▲▼ To SMART PICTURE

◀▶ To enter

▲▼ To select the mode "ON" or "OFF"

Press the MENU button when finished

Note:

- When you have "DYNAMIC" selected in the "VIDEO STATUS", Smart Picture is not selected.

Picture Adjust

Digital VNR

This function can be selected to change the effect of Digital NR.

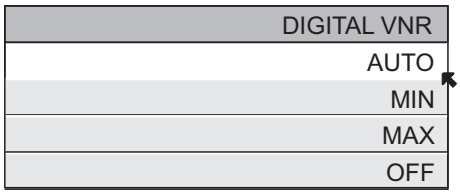
Press the MENU button

▲▼ To DIGITAL VNR

◀▶ To enter

▲▼ To select the effect you like.

AUTO: adjusts the effect of VNR automatically.
MIN: adjusts the effect of VNR to minimum.
MAX: adjusts the effect of VNR to Maximum.
OFF: turns the effect of VNR off.



Press the MENU button when finished

MPEG NR

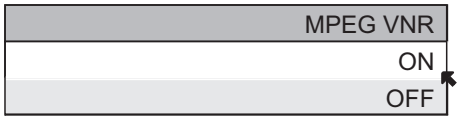
This function blocks noise removal and mosquito NR simultaneously.

Press the MENU button

▲▼ To MPEG NR

◀▶ To enter

▲▼ To select ON or OFF.



Press the MENU button when finished

Reset

Reset resets all picture adjustments (tint, color, picture, bright, detail, energy saver mode, color temperature, color management and dynamic gamma and smart picture) at once to the default settings.

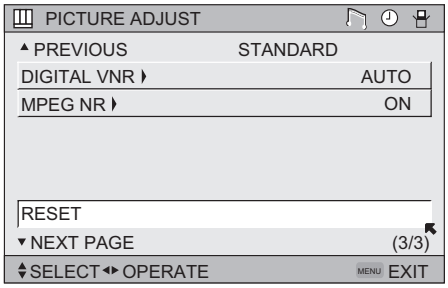
Press the MENU button

▲▼ To RESET

◀▶ To enter

The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments.

Press the MENU button when finished



Sound Adjust

Sound Settings

These settings allow you to change and adjust the sound on your television.

BASS – You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.

TREBLE – Use treble to adjust the level of high-frequency sound in your TV's audio.

BALANCE – Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings

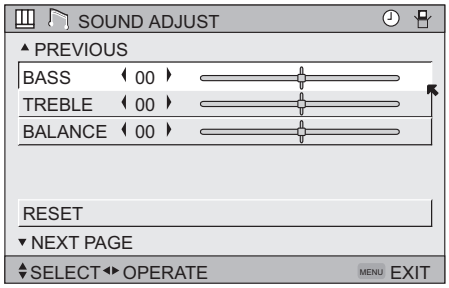
Press the MENU button

▲▼ To BASS, TREBLE or BALANCE

◀ ▶ To adjust the setting

▲▼ To move to the next setting

Press the MENU button when finished



Note:

- You can reset the sound adjustments (BASS, TREBLE and BALANCE) you set at once as the default setting when you select reset. See page 56.
- You can adjust BALANCE only when A.H.S. is off. See page 63.

Reset

Reset resets all Sound Adjustments (Bass, Treble and Balance) at once to the default settings. See page 56 on how to use reset.

Clock/Timers

Set Clock

The set clock function is described on page 27 as the interactive plug-in menu. You can choose to set the clock automatically or manually. If you need to set the clock again, follow the steps below.

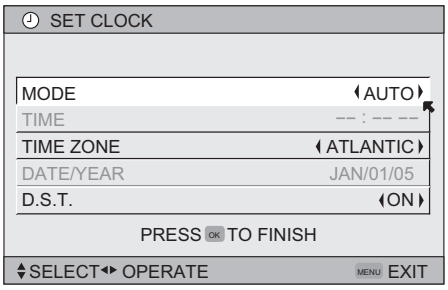
Press the MENU button

▲▼ To SET CLOCK
◀▶ To enter

When you set the clock automatically, choose AUTO by pressing the ◀ or ▶ arrows.

▲▼ To TIME ZONE
◀▶ To select your time zone

ATLANTIC ⟷ EASTERN ⟷ CENTRAL ⟷ MOUNTAIN ⟷ HAWAII ⟷ ALASKA ⟷ PACIFIC



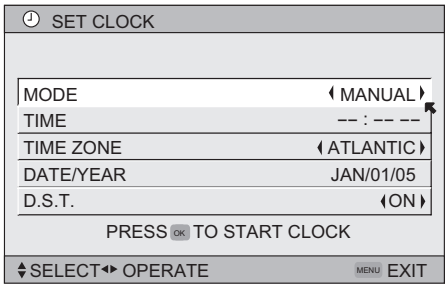
▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. ON or OFF

Press OK to finish

Press the MENU button when finished

When you set the clock manually, choose MANUAL by pressing the ◀ or ▶ arrows.

▲▼ To move to the hours
◀▶ To set the hours
▲▼ To move to minutes
◀▶ To set the minutes
▲▼ To TIME ZONE
◀▶ To select your time zone:
(Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)



▲▼ To DATE/YEAR
◀▶ To set the month
▲▼ To day
◀▶ To set the day
▲▼ To year
◀▶ To set the year
▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. ON or OFF

Press OK to start clock

THANK YOU !!

Press the MENU button when finished

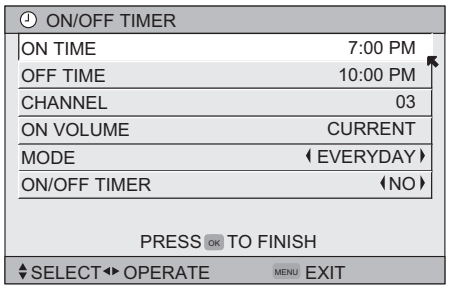
Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Clock/Timers

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



- Press the MENU button
- ▲▼ To ON/OFF TIMER
- ◀▶ To operate (begins with ON TIME)
- ◀▶ To set the hour (AM/PM) you want the TV to turn on
- ▼ To move to minutes
- ◀▶ To set the minutes
- ▼ To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME
- ▼ To accept OFF TIME and move to CHANNEL
- ◀▶ To select channel
- ▼ To ON VOLUME
- ◀▶ To set the volume level
- ▼ To move to MODE
- ◀▶ Choose ONCE or EVERYDAY
- ▼ To ON/OFF TIMER
- ◀▶ Choose YES to accept the timer setting, choose NO if you don't wish to accept
- Press the OK button to finish
- Press the MENU button to exit the menu

Notes:

- The on/off time cannot be set to locked or guarded channels.
- In order for the on/off timer to work, the clock must be set.
- After a power interruption, the timer settings must be reset.

Button Functions

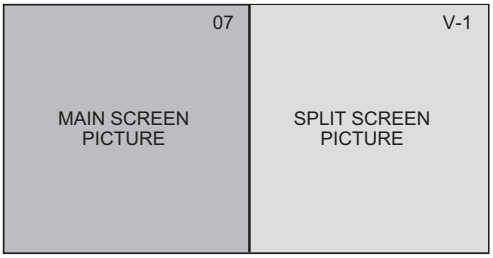
Multi Screen Function

Your television has two kinds of screen: TWIN (2 channels) and INDEX (12 channels).

Note: After you press any multiscreen button, if you press the menu button, only the picture adjust screen will appear.

Twin

Activate the split-screen option by pressing Twin on the remote control. The channel (or input) you were watching before pressing Twin will appear on the left, the new channel will appear on the right. The sound will continue to come from the main screen channel (or input). To turn split-screen off and return to normal television viewing, press TWIN again or press the BACK button.



Notes:

- If the signal that you are watching is coming from the HDMI input, you cannot enter the SWAP or INDEX mode.
- Main Screen and Split Screen will not display the same channel or input at the same time.
- You can enter the TWIN mode when the screen is in NORMAL or INDEX mode.
- Split screen will not display digital channels.
- Split-screen functions will not work with locked channels or channels blocked by V-Chip ratings limits. A grey screen will display instead.
- With split screen, the picture from the component terminal and DIGITAL-IN terminal will not be displayed.
- The aspect of MAIN CHANNEL PICTURE becomes 16:9 when you input the picture of 480p, 720p and 1080i from the component terminal and DIGITAL-IN terminal.
- After you press the Select button, and select SPLIT SCREEN when you press the OK button, select normal screen. If you don't operate, the MAIN CHANNEL SCREEN will be automatically selected about 8 seconds later.
- Aspect does not work in Twin mode.
- When you press the Menu button in Twin mode, it appears only as Picture Adjust menu.
- When the cable card is inserted into the TV, the combination of analog broadcasting and digital broadcasting will not appear in the TWIN mode.
- When it is PC output, Main and Split screen will not be displayed.
- When you are in PC mode, TWIN, INDEX or FREEZE can not be used.

Button Functions

Index

This allows you to quickly look at up to 12 channels at a time so that you can decide which one to watch.

1	2	3	4
5	6	7	8
9	10	11	12

Notes:

- Only RF input signal will be displayed.
- You can watch the channel added in channel summary. See page 37.

Freeze

Pressing the FREEZE button causes the screen to change to the split-screen display with the still picture displayed on the right. In order to return to the normal display, press the FREEZE button once again.

Note: When the screen is in freeze mode, if you do not operate it within 15 minutes, this function will cancel out.

Swap

You can exchange the channel (or input) displayed in the split screen window for the main screen image by pressing the SWAP button.

Note:

- It will only work in TWIN mode.

Select

With SELECT, you can select the picture (channel) while viewing SPLIT screen. When you press SELECT button, the channel number on the top will be highlighted. Each press of SELECT will shift the channel.

Button Functions

Power

Turns the TV on or off.

Press the POWER button

Note:

- When you press the power button on the TV, and you are tuned to a digital channel or i.Link, "NOW WARMING UP... PLEASE WAIT" appears on the screen. It takes a little while to warm up.

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:

0 (Zero)

1 (One)

2 (Two)

Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:

1 (One)

2 (Two)

Press the TUNE button

Input

Selects the signal input source for the television: VIDEO-1, 2, 3, DIGITAL-IN or i.LINK for video devices like VCRs, DVD players or camcorders.

Press the INPUT button

By every press of the INPUT button, you can change the input mode.

Notes:

- When you return to TV mode, press the RETURN +/TV button or direct 10 key pad or CHANNEL +/– button.
- You can also access by pressing the INPUT button on the side of the TV instead of the remote control.
- i.LINK can be selected only when you have an i.LINK device connected.
- If you have a PC connected to the TV, select VIDEO-3.

TheaterPro D6500K

The TheaterPro D6500K color temperature technology function makes sure that the video you watch is set to the standard color temperature, so that what you see is as true to what the film to video editors intended it to be.

Press the THEATERPRO button

Button Functions

Return +/TV

The RETURN+/TV button has three functions:

Return - Returns to the channel viewed just before the channel currently onscreen.

Return+ - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH– buttons.

TV - Returns to the TV mode.

Press the RETURN+/TV and hold for three seconds

RETURN CHANNEL
PROGRAMMED!

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/– buttons.

Press the RETURN+/TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+ button for three seconds. The message “RETURN CHANNEL CANCELLED!” will appear.
- Return+ works only with the Channel+/– buttons. Pressing any number key will cancel return+.

Sound

By pressing the SOUND button, you can change the A.H.S.+ (Advanced Hyper Surround plus) mode, BBE, SMART SOUND and HYPER BASS on or off.

A.H.S.+ - Adds a more spacious surround sound. Music gives basic effect and movie for more effect.

BBE - BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

SMART SOUND - Decreases high sound levels, giving a regulated sound level.

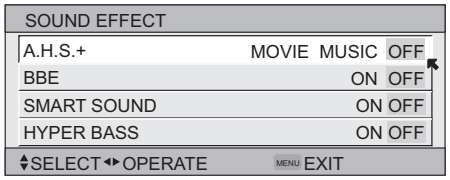
HYPER BASS - Increases bass levels, giving a richer, deeper bass.

Press the SOUND button

▲▼ To select A.H.S.+, BBE, SMART SOUND or HYPER BASS

◀▶ To choose the setting

Press the MENU when finished



Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Note: Smart Sound may become an unnatural effect, depending on the signal source.

Button Functions

Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

Video Status

The VIDEO STATUS button gives you a choice of four TV picture display settings, including a display of your own preferences.

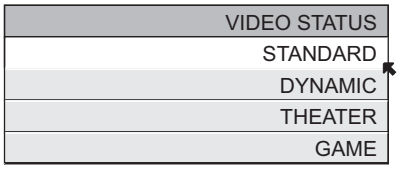
Standard - Resets the picture display to the factory settings.

Dynamic - Gives a vivid picture with better contrast when viewing in a brightly lit room.

Theater - Gives a rich, film-like look to video when viewing in a dimly lit room.

Game - Used for when you are playing video games connected to your TV.

VIDEO STATUS
STANDARD
DYNAMIC
THEATER
GAME



Press the VIDEO STATUS button
By every press of the VIDEO STATUS button, you change the mode.

Note:

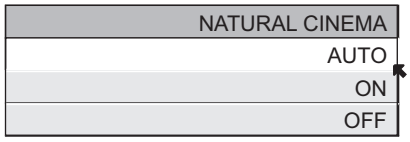
- You can also change the mode by pressing the ▲▼ buttons.
- You can also access the FRONT CONTROL PANEL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶).

Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, press NATURAL CINEMA and set it to AUTO. Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.

Press the NATURAL CINEMA button

NATURAL CINEMA
AUTO
ON
OFF



Notes: The natural cinema mode is automatically set to "AUTO" in the following cases:

- Turning on or off
- Changing the channel or input mode
- Using multi-screen functions
- If you are in PC mode, Natural Cinema can not be used

Button Functions

Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work in intervals of 15 minutes, for a total time of up to 180 minutes.

Press the SLEEP button

→ 0 15 30 45 60 75 90 105 120 135 150 165 180 →

Sleep Timer Message

60 seconds before the automatic shutoff, this message will appear:

GOOD NIGHT!!
PUSH SLEEP TIMER BUTTON
TO EXTEND

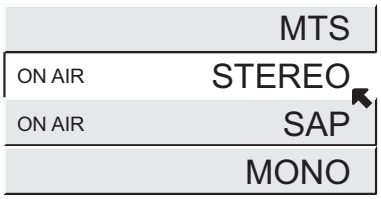
You then have 60 seconds to press the SLEEP button to delay the shut off for another 15 minutes.

ML/MTS

MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).

Press the ML/MTS button

By every press of the ML/MTS button, you change the mode



Notes:

- When you are receiving a digital broadcast, if there are other languages, you can change the language by pressing the ML/MTS button.
- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.
- MTS unavailable if your television's Input source is in input 1, 2, 3 or 4 mode, as described on page 62.
- ML/MTS will not work when you are using the Digital-In.
- You can also change the mode by pressing the ▲▼ buttons.

Button Functions

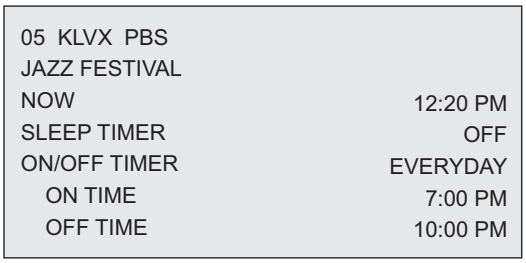
Display

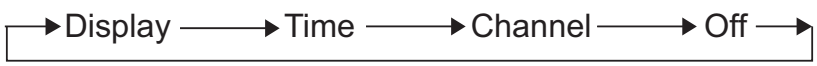
The display screen shows the current status of timers, inputs and XDS ID.

Press the DISPLAY button

The screen to the right shows the following information:

- The current channel or AV input (Channel 05)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode:





Display - Full screen shown above

Time - Shows the current time only

Channel - Shows the current channel

Off - Turns display off

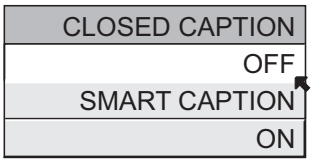
Notes:

- You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.

Press the C.C. button



Notes:

- SMART CAPTION will appear when you press the MUTING button, only on channels where the broadcast contains closed captioning.
- When you select ON, it will be the mode selected in the Closed Caption Menu.
- See page 47 when you set the caption/text mode.
- You can also change the mode by pressing the ▲▼ buttons.
- If you are in PC mode, C.C. can not be used.

Channel +/–

Use these buttons to move up or down all the available channels your TV is able to receive.

Volume +/–

Use these buttons to raise or lower the TV's volume level.

Button Functions

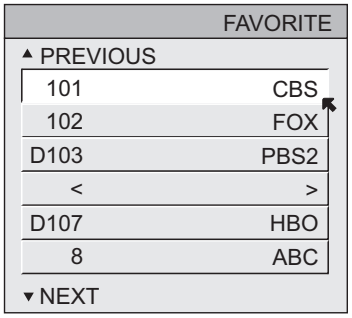
Favorite

The Favorite button allows you to select your favorite channels easily. First, you must register the channels that you like. See how to register below.

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to watch

Press the OK button
It will change to the channel you have selected.



Register the favorite channel

Press the channel number you want to register
The channel program will change.

Press the FAVORITE button for three seconds
The channel will be registered in the favorite channel list.

Notes:

- Both analog and digital channels can be registered. The digital channels have a "D" in front of the channel number.
- The maximum number of channels you can register is 24.
- If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.
- Sub channels can not be registered.
- The newest channel you registered will appear at the top of the list.
- Regarding digital channels, see pages 74 - 79.

Delete the favorite channel

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to delete
◀▶ To enter
Press the OK button
The channel was deleted.

Press the FAVORITE button when finished

Note:

- Before pressing the FAVORITE button when you are finished, press the ◀▶ button again, and you can return to the deleted channel.

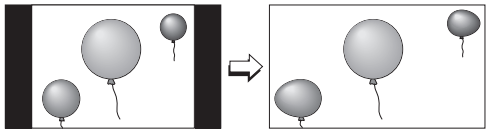
Button Functions

Aspect

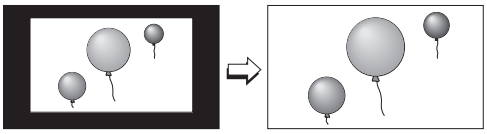
This feature will help you adjust the picture you are watching to give you the best possible picture quality.

Aspect Ratios

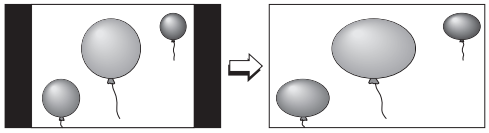
PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.



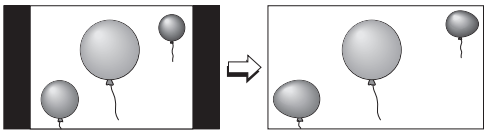
CINEMA - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.



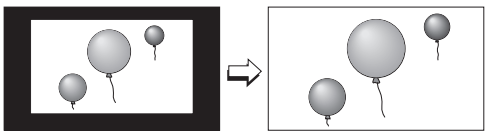
FULL - This is the ratio to use when watching 16:9 High-Definition broadcasts.



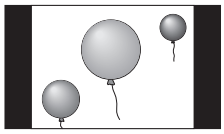
PANORAMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.



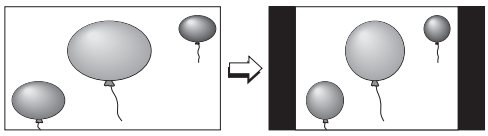
CINEMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.



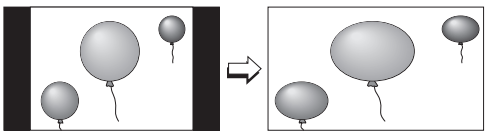
REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while black bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.



SLIM - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Black side bars will appear.



FULL NATIVE - This ratio displays 100% of the ratio. Normally, all aspects except for Full Native display about 95%.



Button Functions

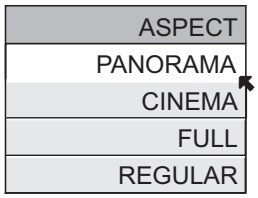
Aspect Ratios (Continued)

Press the ASPECT button

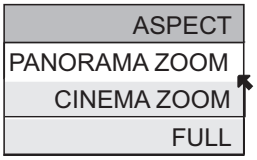
- *By pressing the ASPECT button, you can change the size.*

When you change the aspect ratios, it is different from their broadcast or recorded program.

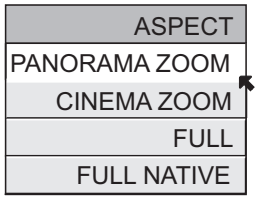
NTSC, 480i, 480p



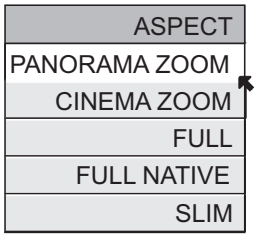
HD 720p



HD (1080i)
ATSC (1080i, 720p)



ATSC (480i, 480p)



Notes:

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing Menu ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶).
- "SLIM" can only be displayed when the signal is ATSC (480i or 480p).
- "FULL NATIVE" can only be displayed when the signal is ATSC or 1080i.
- If the televison receives a 16:9 signal from your HDMI device, the aspect mode will turn to FULL automatically. If the television receives a 4:3 signal from your HDMI device when you are in FULL aspect mode, it will return to REGULAR aspect mode. If you change the aspect mode after the televison changed it to FULL automatically, the televison will change to the aspect mode you choosed.
- If you are in Media Card Viewer mode, Aspect can not be used.

Menu

The MENU button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system.

- See individual topics like "Sound Adjust" for specific information on using menus.

OK

This button confirms your selection when you are in one of the onscreen menus.

Back

This button allows you to go back in the menu to change a selection or correct a mistake.

Button Functions

TV/CATV Slide Switch

Use either the television's own tuner or a cable box to select channels. Set this switch to **TV** to operate the television's built-in tuner. Move the switch to **CATV** to operate a cable box.

Note:

- See page 29 for information on programming your remote for cable box operation.

VCR/DVD Slide Switch

You can control a VCR or DVD player with the buttons on the lower part of the remote control. Move the slide switch to **VCR** or **DVD** to operate.

Notes:

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 30.
- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 31.

VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: play, record, rewind, fast-forward, stop, pause, channel scan, TV/VCR, power on and power off.

Move the selector switch to **VCR** to operate.

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 30.

DVD Buttons

You can also use this remote control to operate the basic functions of your DVD player. These functions include: play, rewind, fast-forward, stop, still/pause, previous/next, tray open/close, power on and power off.

Move the selector switch to **DVD** to operate.

- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 31.

Light

All remote control buttons are illuminated, except for the TV/CATV slide switch, VCR/DVD slide switch and Light button. Press the LIGHT button to turn the illumination on for 4 seconds.

Digital Setup

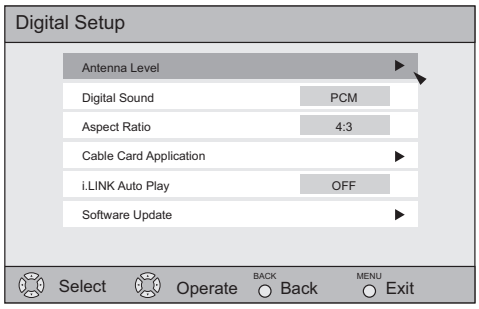
Use this function when you are receiving a digital broadcast.

Press the MENU button

▲▼ To DIGITAL SETUP

◀▶ To enter

The onscreen will appear



Notes:

- Software Update will only appear when the SD Card is inserted.
- If you are watching an analog channel, you can still access the digital setup menu at anytime, while you are doing this, the background screen will turn blank. In this case, the tuner will switch to digital, since you are accessing the digital setup menu.

Antenna Level

Confirms the present antenna level.

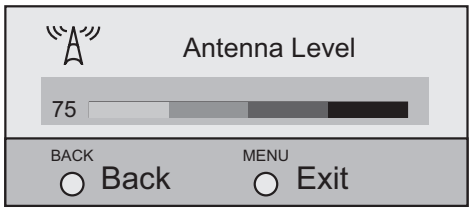
Press the MENU button

▲▼ To DIGITAL SETUP

◀▶ To enter

▲▼ To Antenna Level

◀▶ To enter



Note:

- If you are watching an analog channel or a signal from your i.Link device, antenna level will not appear.

Digital Setup

Digital Sound

You can select the optical digital sound output, either PCM or Dolby Digital when your TV is connected to an amplifier that has Dolby Digital decoder. If you select Dolby Digital, you can enjoy listening in 5.1ch sound when watching digital broadcasts.

Press the MENU button
▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To Digital Sound
◀▶ To select PCM or DOLBY DIGITAL
Press the MENU button when finished

Notes:

- If your amplifier does not have Dolby Digital decoder, select PCM. If you don't select PCM, it cannot output the sound from the speakers.
- For connecting an amplifier using the optical output, see page 22.

Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

Aspect Ratio

You can select the aspect mode for ATSC from 4:3 or 16:9.

Press the MENU button
▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To Aspect Ratio
◀▶ To select 4:3 or 16:9
Press the MENU button when finished

Notes:

- Set the mode to 4:3 or 16:9 before you record a program using the ATSC MONITOR OUT.
- Make sure the mode you choose is the same as the TV's aspect ratio when the recorded program is played back, so that you can obtain a good picture quality, free from any unatural distortions.

Cable Card Application

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To Cable Card Application
◀▶ To enter

Press the OK button

The application will perform

i.LINK Auto Play

When playing a D-VHS tape, you can set it to the i.LINK input automatically, or manually.

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To i.LINK Auto Play
◀▶ To select ON or OFF

ON: Set to i.LINK input automatically
OFF: Select the input manually

Press the MENU button when finished

Software Update

At first, insert the SD(Multi-media) card into the memory card slot. This function will appear only when you insert an SD Card.

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To Software Update
◀▶ To enter
▲▼ Checks the card if it needs an update or not

Press the MENU button when finished

Digital Button Functions

Digital CH D/A (Digital/Analog)

The D/A button changes the analog and digital channel. Each time you press the D/A button, you can switch back and forth the analog and digital channels. Digital channels have a "D" in front of the channel number.

Note:

- If the cable card is inserted into the TV, you cannot use the D/A button. You can select a digital channel only.

Press the D/A button

To watch digital channels

For example, to move to channel D23:

Press 2 (Two)

Press 3 (Three)

Press the TUNE button

Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the SUB button, you can select a sub channel easily.

For example, to move to sub channel 123-45:

Press 1 (One)

Press 2 (Two)

Press 3 (Three)

Press the SUB button

Press 4 (Four)

Press 5 (Five)

Press the TUNE button

Note:

- If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the OK button.

Digital Button Functions

i.LINK Menu

i.LINK has two menus - Controller and Device.

By connecting a D-VHS VCR with an i.LINK cable, you can set the timer easily.

Notes:

- The i.LINK/Timer function will only work when you are receiving digital programming only.
- As for the connection of a D-VHS VCR with the i.LINK cable, see page 23.
- When operating the i.LINK, don't insert or disconnect the i.LINK cable.

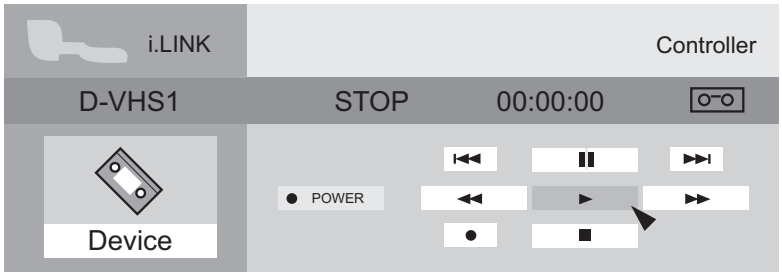
Controller

You can operate a D-VHS VCR connected with an i.LINK cable by using this controller.

Notes:

- If the i.LINK is not connected, the Controller OSD will not appear. The OSD of device on page 76 will appear.
- Some controller operations may differ from your D-VHS VCR operations.

Press the i.LINK MENU button



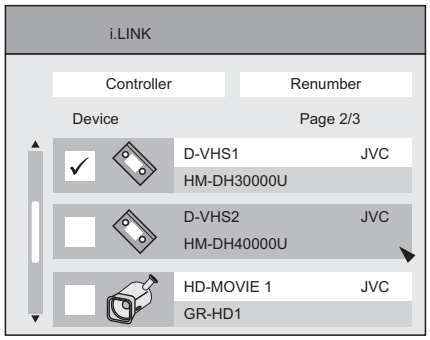
◀▶▲▼ To select the key you want to operate

Press the OK button

Digital Button Functions

Device

To operate, select a device.



▲▼ To select your device connecting with i.LINK

Press the OK button

Notes:

- If you do not select the device, you cannot use the i.LINK timer functions.
- When one device is selected and you select controller, you will move to the Controller onscreen.
- The devices listed on the device onscreen are only D-VHS and HD-MOVIE that have i.LINK, which can be recognized on this television. However, you can not record programs to HD-MOVIE.
- If you disconnect one device, it will be removed from the list. Then, select Renumber to rearrange the list in the new order.

Digital Button Functions

Timer

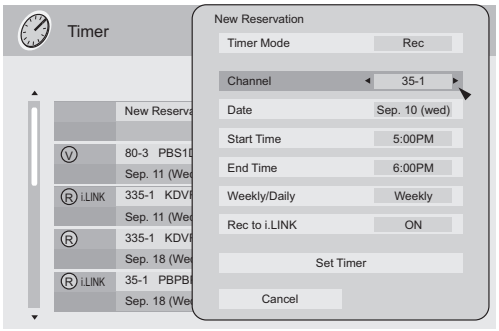
You can set the two timers: Record and view. The timer starts the recording or turns to the channel you set for it automatically.

Reservation

Press the TIMER button

▲▼ To New Reservation

Press the OK button



▼ To Timer Mode

◀▶ To select Rec or View

▼ To Channel

◀▶ To select the channel you want to set the timer for

▼ To Date

◀▶ To select the date

▼ To Start Time

◀▶ To set the start time

▼ To End Time

◀▶ To set end time

▼ To Weekly/Daily

◀▶ To select Once, Weekly, Daily(Sun.-Sat.), Daily(Mon.-Sat.) or Daily(Mon.-Fri.)

▼ To Rec to i.LINK

◀▶ To select ON or OFF

▼ To Set Timer

Press the OK button

If you set the Rec on timer mode, set recording R *is added in front of the program title.*

If you set the View on timer mode, set viewing V *is added in front of the program title.*

Notes:

- In order for the timer setting to work, you must set the clock on your television. See page 58.
- When you want to edit the timer settings, see Timer Edit on page 78.

Digital Button Functions

Timer Edit

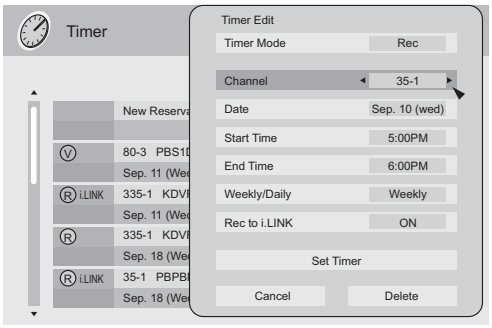
When you want to confirm the timer you set or edited, or delete the timer setting, use this function.

Timer Edition

Press the TIMER button

▲▼ To select the timer list you want to edit

Press the OK button



◀▶ ▲▼ To change the setting you want to edit

▼ To Set Timer

Press the OK button

Timer Deletion

Press the TIMER button

▲▼ To select the timer list you want to delete

Press the OK button

▲▼ To Delete

Press the OK button

Digital Button Functions

Cancel the timer recording

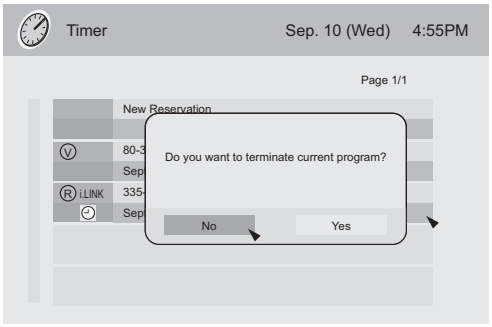
When you record a digital program now, you can cancel the recording.

Press the TIMER button

▲▼ To select the timer list you want to cancel the recording

Press the OK button

The message "Do you want to terminate current program ?" will appear.



◀▶ To select

YES: Cancel the recording
NO: Continue the recording

Press the OK button

Guide

You can view the program from the GUIDE.

Notes:

- The GUIDE function will only work when you are receiving digital programming only.
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 58.

Media Card Viewer

Readable Media Card

This TV can read the following media cards:

SD Card, MMC (Multi Media Card), Memory Stick, xD-Picture Card, CF Card (CompactFlash Card), Removable microdrive Hard Disk for JVC digital media camera "Everio" (a type of CF Card)

- Read the cautions on the different types of media cards
- Do not remove a media card if it is being used by the TV. A malfunction may cause the card not to operate properly. JVC shall not provide any compensation for any lost content.
- SM Card (Smart Media Card) is not supported.
- CF Card and removable microdrive Hard Disk for JVC "Everio" camera is a type of CF Card compliant with CF+ Type II.

Supported Card Media

The following media are supported in this unit.

(As of September 2005)

Microdrive compact hard disks	Hitachi	2GB, 4GB	* Hard disks with 1GB or smaller capacity are not supported.
SD Memory Cards	Panasonic	128MB, 256MB, 512MB, 1GB	
	LEXAR	128MB	
	SanDisk	32MB, 64MB, 128MB, 256MB	
CompactFlash Cards	LEXAR	512MB, 1GB	
xD-Picture Cards	OLYMPUS	256MB	
	Fujifilm	32MB, 64MB, 128MB	
Memory Sticks	SONY	64MB, 128MB	* Memory Stick PRO cards are not supported.

Notes:

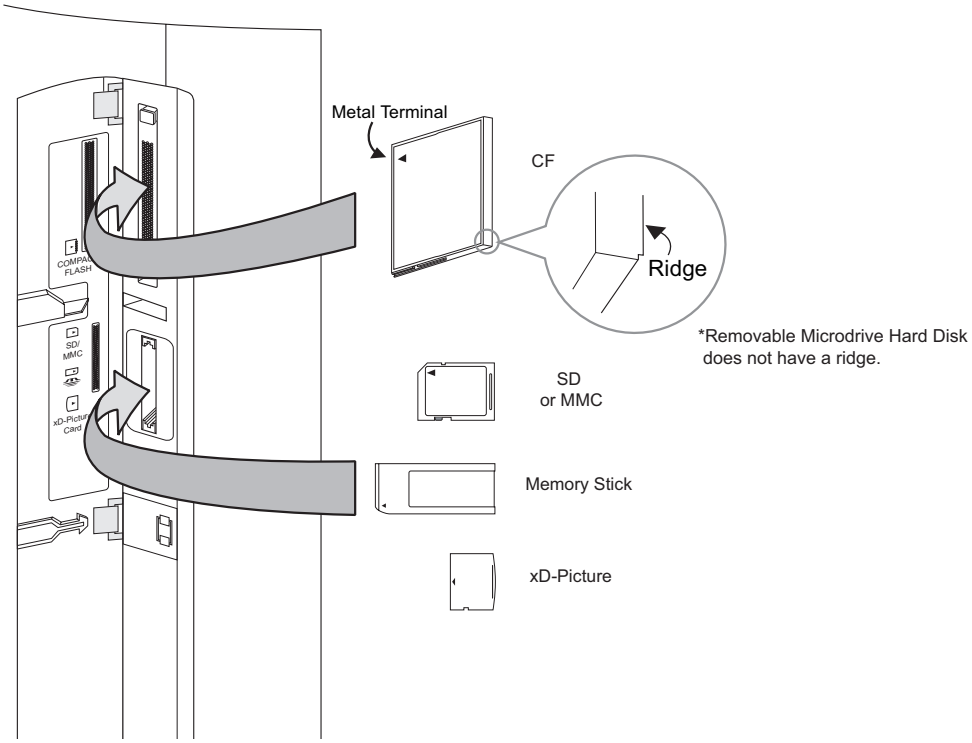
- Operation is not guaranteed for other card media. Usage of other card media can result in the loss of data already recorded on the card.
- Playback of MPEG-2 video on CompactFlash cards requires a high-speed type card.
- Conversion adapters for card media are not supported.
- The unit may have trouble detecting certain cards. In this case, leave the card inserted, and turn the power off and then on again.
- Recognition of the card can take significantly more time if the card contains a large number of files.

* The above supported card media have been confirmed to work with this TV. However, they are not guaranteed to work with your cards.

Media Card Viewer

How to insert Media Card

Before you insert a media card into the card slot, open the door on the left side panel and make sure of the slot type and the direction to insert the card as illustrated. To access, gently push the "PUSH-OPEN" on the door to open it. Once you have inserted the media card, the message "PLEASE CLOSE THE DOOR TO OPERATE" will appear on the screen. Then, close the door. To remove the media card, press the card into the slot again after opening the door.



Note:

- If you do not close the door, it will not operate.

Media Card Viewer

How to operate Media Card Viewer

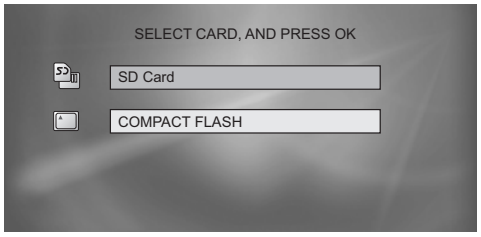
Press the MENU button

▲▼ To MEDIA CARD VIEWER

◀▶ To enter

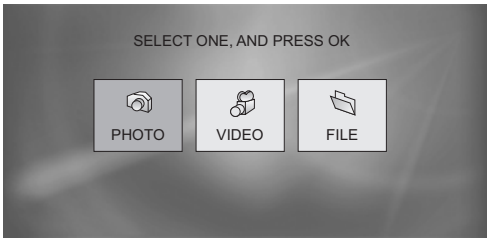
▲▼ To select SD Card or COMPACT FLASH card

If you only have one media card inserted in the card slot, this menu will not appear.



◀▶ To enter

The following PHOTO, VIDEO or FILE will appear



◀▶ To select PHOTO, VIDEO or FILE (Continue to page 83 or 84)

Notes:

- The above screen will change depending on the type of card you insert.
- The sound from the media card can not be changed.
- Onscreen language is linked to LANGUAGE in the Initial Setup Menu.
- When the media card viewer function is used, the menu is not used.
- The following message appears on the TV screen in the following cases:
  - When you are inserting a media card or when the door is open, "PLEASE CLOSE THE DOOR TO OPERATE".
  - When no media card is inserted "NO MEDIA DETECTED"
  - When no files are found on the media card "NO FILE FOUND"

Media Card Viewer

PHOTO

◀▶ Select PHOTO

Press the OK button

The right nine images appear.

▲▼◀▶ To select an image that you like

Press the OK button

The slide show starts.

Notes:
- To stop the slide show, press the BACK button.
- To pause the slide show, press the OK button. To play again, press the OK button.
- In thumbnail view, the time to display the images varies depending on the number of files recorded on the card.

Illustration when a CF card is being used

Rotation

When you press the OK while you are viewing the slide show in PHOTO mode, the image is paused temporarily. Then press ▲▼ while the image is paused, and you can rotate the image.

Note:
- Although the image has changed because it is rotated, it will not be saved to the media card.

VIDEO

◀▶ Select VIDEO

Press the OK button

The right nine images appear.

▲▼◀▶ To select an image that you like

Press the OK button

The video show starts.

Illustration when a CF card is being used

Notes:
- To stop the video show, press the BACK button.
- The volume can not be changed when these nine images appear.
- In the playback of MPEG4 images, verification has been made for basic playback only.
- In thumbnail view, the time to display the images varies depending on the number of files recorded on the card.

Media Card Viewer

File playback note for PHOTO and VIDEO

- Some recorded files can result in errors or may not be played back correctly. Sometimes, JPEG, MPEG2, and MPEG4 files downloaded from the Internet or other sources cannot be played back correctly. Images also may not be played back correctly depending on the camera that was used for recording.
- Noise may appear when images change in the slideshow.
- The display order in the slideshow follows alphabetical order of the file names.
- If video, still images, and other files with different extensions are stored in the same folder, start of video playback may be choppy or other playback problems may occur. Storage of different file types in separate folders is recommended.
- When video or still images are recorded by Everio, only video recorded in a compact hard disk can be played back. Video recorded in the SD card cannot be played back.
- You may not be able to replay audio on some files created or edited with "CyberLink DVD Solution" software (provided with some JVC digital cameras). This will depend upon the way in which the files were created or edited and is not a malfunction of the TV.

FILE

◀▶ Select FILE

Press the OK button

The following screen appears.

Illustration of CF file library

▲▼ Everytime a file is selected in the left frame, the image will appear in the right frame.

Notes:

- To be released from the FILE, press the BACK button.
- The date displayed in the FILE view is the date the images were recorded. The date may not be displayed for some cameras.
- Only the first eight characters of the file name are displayed. Double-byte characters are not supported.
- The display order of thumbnails follows alphabetical order of the folder names and then alphabetical order of the file names in the folders.

Media Card Viewer

Operation Note

Operation of the CH+ and CH- keys is different for slideshows started from the PHOTO/VIDEO icon and for slideshows started from the FILE icon.

1) When you select VIDEO icon and play the video, press the following buttons:
   CH+ : Fast-Forward
   CH- : Rewinding
   VOL+ : Up volume
   VOL- : Down volume
   OK : Pause or Play (Each pressing will switch back and forth)

2) When you select FILE icon and play the PHOTO or VIDEO:
   While playing PHOTO – You cannot use CH+/CH- and VOL+/-
   While playing VIDEO – You cannot use CH+/-. You can change volume by using VOL+/-.

Note: While using the card viewer, do not unplug the television from the AC outlet. It will cause the card to break.

Media Card Viewer

Specifications

1) Supported card media

Card Media	CompactFlash	CF type Microdrive Hard Disk	SD Memory Card	Memory Stick	xD-Picture Card
MPEG2-PS	√	√			
MPEG4	√	√	√	√	√
JPEG	√	√	√	√	√

2) Supported file systems

(1) FAT16
(2) FAT32
(3) VFAT

3) Supported data management standards

(1) DCF 2.0 (still image)
(2) SD-Picture (still image)
(3) SD-Video Entertainment Video Profile (video) compliant
(Video: MPEG2-PS MP/ML, Audio: Dolby Digital)

(4) SD-Video Mobile Video Profile (video) compliant
(Video: MPEG4 Simple profile/ Level 1 restricted to Level 3, Audio: G.726)

4) Supported image file standards and extensions

(1) Exif 2.21 (Extensions: JPG, jpg, JPEG, jpeg)
(2) JFIF (Extensions: JPG, jpg)
(3) SD-Video MPEG2-PS (Extensions: MOD, mod)
(4) SD-Video ASF MPEG4 (Extensions: ASF, asf)

5) Supported image size and rate

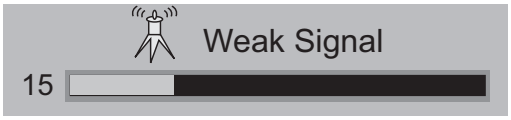
(1) Still images — 160×120 to 2560×1920 pixels (The size is automatically adjusted when displayed.)

(2) Video
- 1) MPEG2-PS — 720×480 pixels (525/60 systems)
  352×240 pixels (525/60 systems)
- 2) MPEG4 — 352×288 pixels/30 frames
  240×176 pixels/15 frames
  160×120 pixels/5 frames

OSD Information

Weak Signal

This OSD warning appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.



No Program

If the TV channel you selected, or were watching is not receiving a signal, "NO PROGRAM" appears on the television screen. It appears when that channel is not receiving a signal and you have the Noise Muting function OFF and you have a single screen. It moves automatically every two seconds to prevent the screen from burn-in.

Note:

- Even if "NO PROGRAM" appears on the screen, your timer functions and auto shut off functions that you set, are still active.

Invalid Signal

If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen. It appears when the input is PC and it is a single screen.

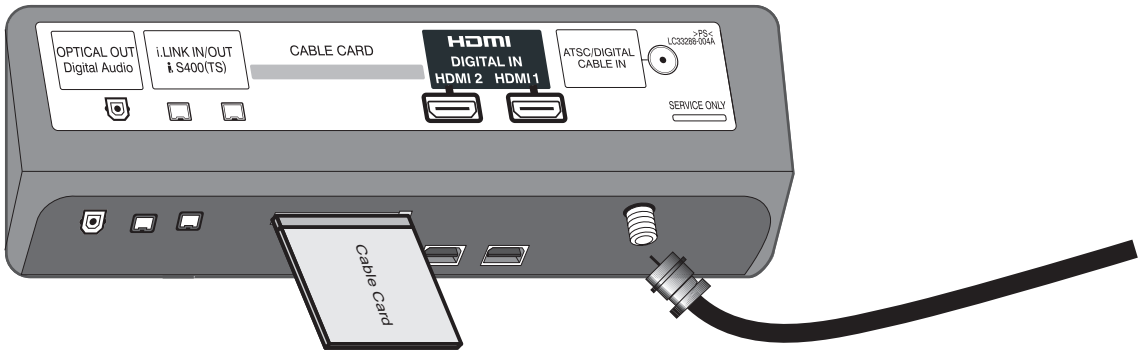
Cable Card Information

Cable card offers information when a cable card is inserted into the CABLE CARD slot on the back of the television.

Notes:

- Please contact your local cable company regarding detailed information.
- When the cable card is inserted into the cable card slot, if you turned the power off, the fan will continue to rotate because the program information is being renewed. This is normal.

Cable Card Connection



Notes for inserting Cable Card:

- Firmware Upgrade of Cable Card can be executed. While executing the Firmware Upgrade, please do not turn off the TV, according to the message on the TV screen.
- When you are watching a program, and if a weather or government emergency occurs, the following may occur automatically regardless of what channel you were watching: the channel may change, the screen will disappear or important text will appear on the screen. The information is transmitted from EAS (Emergency Alert System). EAS information may also appear when you do not have a cable card inserted.

Troubleshooting

Refer to the table below to check the condition. If you think that there is a problem, contact the JVC Service Center where you purchased the television.

PROBLEMS	CHECK
There is no power	• See if the power cord became unplugged. • Check for a blown fuse or circuit breaker or a power outage.
There is no picture or sound	• The antenna could be disconnected. • The input mode could be set improperly. See page 62. • The tuner (Auto Tuner Setup) could be set improperly. See page 36. • The TV station may be having difficulties. Check to see if other stations are working.
Remote control is not operating properly or at all	• Check to see that the batteries are still working and properly installed. • Make sure the remote has a clear sight path to the TV. • Check that the TV/CATV switch is in the proper position. • You may be too far from the TV. You must be within 23 feet (7 meters).
You cannot select a certain channel	• Make sure the channels have been programmed. See "Channel Summary", page 37. • Check to see if the channel is locked. See "Channel Summary - Lock" page 38.
The power turns off by itself	• Make sure the set did not become unplugged. • Perhaps the On/Off Timer is set. See page 59. • Check to see if the Sleep Timer was set. See page 65.
It does not operate correctly	• This television is operated by a microprocessor. It is possible that external noise or interference is causing the problem. If the television does not function correctly, remove the electrical plug from the wall outlet and wait a while before inserting it into the wall outlet again and operating the television.
The clock is wrong	• The power was interrupted and the clock was not reset. See page 58.
The color quality is poor	• Tint and Color may be improperly adjusted. See page 54. • The Video Status mode may be turned to the wrong setting. See page 64.
There are lines across the picture	• There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.
The picture is spotted	• There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.
There are double pictures (ghosts)	• A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.
Picture is snowy (image noise)	• Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it.
Screen is 80% black	• The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 47.
Stereo or bilingual programs can't be heard	• Make sure the MTS settings are correct. See page 65.

Troubleshooting

PROBLEMS	CHECK
Static electricity	• It is normal to feel static electricity if you brush or touch the screen.
You hear occasional crackling sounds	• It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.
It does not operate correctly	• Press the CHANNEL- and VOLUME- buttons on the side panel of the TV simultaneously for a few seconds. The Digital Tuner will be reset. If this does not reset it correctly, unplug the power cord and plug it back in.

The following are not malfunctions.

- The television may make a creaking sound if the temperature of the room or the temperature of the inside of the television changes. If there is no problem with the screen or sound, then there is no need to worry.
- Although the picture may be temporarily disturbed and noise may be seen on the screen if the power is turned on immediately after it has been turned off, this is not a malfunction.

JVC®

LIMITED WARRANTY

COLOR TV 1-1

For Canadian model televisions, see separate sheets for Canadian Warranty information.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
FOR DIRECT-VIEW COLOR TELEVISION, PICTURE TUBE is covered for Two(2)years.

Parts	Labor
1 YEAR	**1 YEAR**

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution
To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51011-8
(0504)

Specifications

Model	LT-40FH96
Type	LCD Flat Television
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable
Reception Range	VHF 2 to 13, UHF 14 to 69 at ATSC, CATV 135 Sub, Mid, Super, Hyper and Ultra bands at Digital Cable
	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (191 channel frequency synthesizer system) at Analog • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
Power Source	AC 120V, 60 Hz
Power Consumption	255W
Screen Size	40 inch / 101.6 cm measured diagonally, 16:9 ratio
Audio Output	10W + 10W
Speakers	6.6 cm round x 4
Antenna Terminal (VHF/UHF, ATSC/DIGITAL CABLE IN)	75 ohms (VHF/UHF)(F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4dBs) high impedance
Component Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p 75 ohms
S-Video Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Monitor/Recording Output	Video: 1Vp-p, 75ohms Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms Audio: 250mVrms (-10dBs) Fs-18dB Low Impedance
Optical Output Digital Audio	Digital Out (optical) x 1
i.LINK In/Out Jack	TS IN/OUT (4-pin, S400) x 2 IEEE1394 compliant DTCP digital copy protection compatible
Digital–In	HDMI jack x 2 Note: The Digital–In terminal is not compatible with picture signals of a personal computer
Readable Cards	SD Card, MMC, CompactFlash, Removable microdrive Hard Disk for JVC digital media camera "Everio" (a type of CF card), Memory Stick, xD-Picture Card
Dimensions (inch/cm) W X H X D	39 3/8 x 29 x 13 (with stand) 100 x 73.4 x 32.9 (with stand)
	39 3/8 x 26 1/2 x 4 5/8 (without stand) 100 x 67.1 x 11.7 (without stand)
Weight (lbs / kg)	70.4 / 32 (with stand)
	55 / 25 (without stand)
Accessories	Refer to "unpacking your TV", page 9

Specifications subject to change without notice.

- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/04_AtscCC/download.html

Notes

Notes

JVC COMPANY OF AMERICA
Division of JVC Americas Corp.
1700 Valley Road
Wayne, New Jersey, 07470

JVC CANADA, INC.
21 Finchdene Square
Scarborough, Ontario
Canada, M1X 1A7

Other ManualsLib Projects

www.manualslib.com

www.manualslib.de

www.manualslib.es

www.manualslib.fr

www.manualslib.nl

www.manualslib.mx

www.manualslib.tech 30+ Languages